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PERSONAL.

Mr. R. H. Griffin has been appointed General Roadmaster of the St. Louis Southwestern Ry.

Mr. R. G. Collins, Jr., has opened an office for general engineering and construction in Zanesville, O.

Mr. Julian Kennedy, consulting and contracting engineer, has removed his offices to the Smith Building, Pittsburg.

Mr. E. B. Thompson has been appointed Mechanical Engineer of the Chicago & Northwestern Ry., succeeding Mr. F. M. Whyte, who has resigned.

Mr. F. M. Whyte, formerly Mechanical Engineer of the Chicago & Northwestern Ry., has been appointed to a similar position on the New York Central R. R.

Mr. George W. Rafter, M. Am. Soc. C. E., of Rochester, N. Y., has been appointed Consulting Engineer to the Canal Advisory Commission in New York state.

Mr. John T. Whistler has been appointed Assistant Engineer on the new Isthmian Canal Commission. He sailed for Greytown, Nicaragua, on Aug. 5, on the steamer "Altai."

Mr. William L. Blair, Superintendent of the Eastern Division of the New York, Chicago & St. Louis R. R., is to remove his headquarters from Conneaut, O., to Buffalo, N. Y.

Mr. Gustave R. Tuska, Assoc. M. Am. Soc. C. E., has removed his offices from 29 Broadway to 62 William St., New York city, where he will continue his practice as consulting engineer.

Mr. C. S. Sims, Jr., has been appointed Engineer of Maintenance of the new Chicago Terminal Division of the Pennsylvania Lines, and will be succeeded at Allegheny by Mr. James A. McCrea.

Mr. Samuel M. Manifold, Chief Engineer and General Manager of the York Southern R. R., has been appointed Superintendent of the Baltimore & Harrisburg Division of the Western Maryland R. R.

Mr. Alfred Noble, M. Am. Soc. C. E., one of the members of the new Isthmian Canal Commission, was given a farewell dinner at the Technical Club, Chicago, on Aug. 5, on the occasion of his departure to join the commission.

Mr. Paul K. Brawd, Chief Electrical Engineer of the Russian Electric Co. Union, has arrived at New York city from St. Petersburg. He has come to the United States to make investigations in regard to electrical and mining machinery.

Mr. Joseph Buker, Superintendent of the Consolidated Cattle Car Co., of Chicago, has been appointed Assistant Superintendent of Machinery of the Illinois Central R. R., succeeding Mr. F. W. Brazier, who has recently gone to the New York Central & Hudson River R. R.

Mr. M. A. Zook has been appointed Acting Chief Engineer of the Louisville, Evansville & St. Louis R. R., in place of Mr. E. Holbrook, who has been given leave of absence on account of sickness. He will have charge of the maintenance of way, bridges and buildings.

Mr. Frank P. Davis, M. Am. Soc. C. E., sailed on Aug. 16 for South America. Mr. Davis goes out as assistant to Mr. William F. Shunk, Chief Engineer of the Guayaquil & Quito Ry. This railway is now being finally located and the construction outfit is already on the way.

Mr. J. H. Glover, formerly Superintendent of the Trans-Ohio Division of the Baltimore & Ohio R. R., has been appointed Superintendent of the Akron Division of that system, succeeding Mr. J. H. Johnson, who has been made General Manager of the Cleveland Terminal & Valley Ry.

Mr. E. H. Martin has been appointed General Superintendent of the Diamond State Steel Co., Wilmington, Del., and will have charge of the construction of the new open-hearth steel plant and rolling mill. He was formerly Superintendent of the Lukens Iron & Steel Co., of Coatesville, Pa.

Professor Alexander Mitinski, a prominent mining engineer, of St. Petersburg, Russia, is visiting the mining centers and machine shops in the eastern part of the United States. He is expected to arrive at New York city about Aug. 31, where he will probably make purchases of mining machinery.

Mr. George L. Wilson, M. Am. Soc. C. E., has been appointed First Assistant City Engineer of St. Paul, Minn., by City Engineer Claussen. Mr. Wilson has been connected with the city engineering department for fourteen years, and for the last ten years has had charge of the paving, sewers and miscellaneous contract work.

Mr. Thos. H. Carlin, of Allegheny, Pa., has sold all his interest in the firm of Thomas Carlin's Sons to his brothers, Messrs. Wm. J. Carlin and J. H. Carlin. He sailed for Europe on Aug. 16 on board of the "Germanic," for the purpose of investigating the methods and machinery employed in the clay, coal, cement and railway contracting business abroad.

Prof. Albert Kingsbury, M. Am. Soc. M. E., in charge of the mechanical engineering department at the New Hampshire College of Agriculture and Mechanical Arts, at Durham, N. H., for the past eight years, has been appointed to the Professorship of Applied Mechanics in Worcester Polytechnic Institute, at Worcester, Mass. Prof. Forrest R. Jones, M. Am. Soc. M. E., of Madison, Wis., has been appointed to the chair of Machine Design in the same institution. For several years he has held a similar position in the University of Wisconsin. At present he is engaged in the designing of a new power and transmission plant for the Niles Tool Works, of Hamilton, O.

OBITUARY.

Mr. John O'Donnell, President of the O'Donnell Steel Track Co. and a railroad commissioner of New York state in 1883, died at his home in New York city, on Aug. 11, aged 71 years.

Mr. S. Dwight Eaton, Chief Engineer of the Keokuk & Des Moines Valley R. R., during its construction, and former City Engineer of Burlington, Ia., died at his home in Burlington, on Aug. 10, aged 76 years.

Mr. Robert Finan, a railway contractor and capitalist, died at his home in Lebanon, Mo., on Aug. 7, aged 80 years. He helped to build the Pennsylvania, Panhandle and other lines in Ohio and Pennsylvania, under Jacob Blickensderffer, as chief engineer. Later he held contracts on the construction of the St. Louis & San Francisco R. R., in Missouri and Kansas.

Mr. Albert Howell Porter, Assoc. M. Am. Soc. C. E., of Niagara Falls, N. Y., died of pneumonia at Tiverton, R. I., on Aug. 8, at the age of 35 years. He was formerly connected with the Croton Aqueduct work in New York city, and was Resident Engineer of the Cataract Construction Co., at Niagara Falls. On February, 23, 1899, he was appointed Superintendent of the Western Division of the Erie Canal, but resigned that position on June 10.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.
Aug. 17-19. Annual meeting, Columbus, O. Secy., Albert Kingsbury, Durham, N. H.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Aug. 21-26. Annual meeting at Columbus, O. Secy., Prof. Frederick Bedell, Ithaca, N. Y. Local Secy., Prof. B. F. Thomas, Columbus, O.

AMERICAN FORESTRY ASSOCIATION.
Aug. 22, 23. At Columbus, O. Secy., G. P. Whittlesey, Washington, D. C.

NEW YORK STATE ELECTRICAL CONTRACTORS' ASSOCIATION.
Aug. 29. At Buffalo. Secy., J. C. Stearns, Buffalo, N. Y.

ENGINEERS' CLUB OF TORONTO.
Sept. 5. Secy., Willis Chipman, 103 Bay St., Toronto, Canada.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 5 to 7. At Cincinnati. Secy., John Fisher, Hamilton, O.

NATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 5 to 7. Wilmington, Del.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 12. Annual meeting, Philadelphia. Secy., Wilson S. Howell, P. O. Box 114, Newark, N. J.

NEW YORK STATE STREET RAILWAY ASSOCIATION.
Sept. 12, 13. At Ithaca, N. Y. Secy., H. A. Robinson, Solicitor Metropolitan Railroad Co., New York city.

ROADMASTERS' ASSOCIATION OF AMERICA.
Sept. 12 to 15. Annual meeting at Detroit. Secy., J. B. Dickson, C. & N. W. Ry., Sterling, Ill.

NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 13 to 15. At Syracuse, N. Y. Secy., J. C. Whitney, Newton, Mass.

LEAGUE OF AMERICAN MUNICIPALITIES.
Sept. 19 to 22. At Syracuse, N. Y. Secy., B. F. Gilkison, New York city.

AMERICAN SOCIETY OF RAILWAY SUPERINTENDENTS.
Sept. 20. At Detroit. Secy., C. A. Hammond, Asbury Park, N. J.

CANADIAN ROADMASTERS' ASSOCIATION.
Sept. 20. Annual convention at Toronto, Ont. Secy., J. Drinkwater, C. P. Ry., Winchester, Ont., Canada.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 25. Annual meeting, San Francisco, Cal. Secy., R. W. Raymond, 99 John St., New York city.

EASTERN MAINTENANCE OF WAY ASSOCIATION.
Sept. 26 to 29. Portland, Me. Secy., F. C. Stowell, B. & M. R. R., Ware, Mass.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 3 to 5. At Toronto, Ont. Secy., David L. Fulton, Allegheny, Pa.

PENNSYLVANIA STREET RAILWAY ASSOCIATION.
Oct. 4, 5. At Lancaster, Pa. Secy., S. P. Light, Lebanon, Pa.

OHIO ELECTRIC LIGHT ASSOCIATION.
Oct. 10-12. At Cleveland, Ohio. Secy., Samuel Scovil, Cleveland, O.

AMERICAN RAILWAY ASSOCIATION.
Oct. 11. At New York. Secy., F. W. Allen, 24 Park Place, New York.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 17. At Chicago. Secy., T. C. Penington, Chicago, Ill.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 17. At Detroit. Secy., S. F. Patterson, B. & M. R. R., Concord, N. H.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 18 to 20. At New York. Secy., Alfred E. Forstall, 58 William St., New York.

CHICAGO ELECTRICAL ASSOCIATION.—The members of the Association, with several visitors, were given a trolley ride on special cars through the South Side suburbs on the evening of Aug. 10, over the line of the Calumet Electric Ry. from 63d St. to Pullman. An entertainment was provided at the end of the line. The party numbered about 100 persons.

ROAD AND TRACK SUPPLY ASSOCIATION.—The annual meeting will be held at Detroit, Mich., Sept. 12 to 14, in connection with the meeting of the Roadmasters' Association of America. The headquarters will be at the Cadillac Hotel, where space has been reserved for exhibits of track supplies and appliances. Exhibitors can obtain reservation of the space required by addressing Mr. J. Alexander Brown, 24 Park Place, New York, N. Y.

AMERICAN INSTITUTE OF MINING ENGINEERS.—The 77th meeting of the Institute will be held in San Francisco, Cal., beginning Sept. 25, 1899. The headquarters will be at the Palace Hotel. A special train will leave Chicago at 5:30 p. m., Sept. 16, and if there is a sufficient number of applicants, a special train may be arranged for from New York on Sept. 15. A considerably reduced excursion rate for the railway travel is expected; but for these particulars application must be made to Mr. R. W. Raymond, Secretary, 99 John St., New York. The Secretary of the local committee at San Francisco is Mr. Edward H. Benjamin, 331 Pine St., San Francisco, Cal.

WESTERN SOCIETY OF ENGINEERS.—At the meeting on Aug. 2, Mr. L. L. Stimpson, a Chicago lawyer, described a plan for a high-level bridge over the Chicago River to connect the boulevard systems of the North Side and the South Side. His bridge was to be 85 ft. high, with approach grades of 3½%, and to comprise two 10-ft. sidewalks, a 20-ft. bicycle path, a 35-ft. roadway, and a 25-ft. space for electric railway tracks. Mr. Oscar Bluemner also suggested a high-level bridge, but with elevators instead of inclined approaches. He cited the Tower Bridge, in London, as being on this plan, which is a mistake. That bridge is a low-level structure, but with a fixed high-level crossing for foot passengers, to be used when the draw is open. As a matter of fact, however, most people wait until the draw is closed, and the overhead bridge is practically neglected.

MASTER CAR AND LOCOMOTIVE PAINTERS' ASSOCIATION.—The annual meeting will be held at Philadelphia, Pa., Sept. 12 to 15, with headquarters at the Continental Hotel. There will be reports by the committees on Tests, and the Special Committee on Protective Coating for Iron and Steel Cars. Other reports will be presented on the following subjects: "Terminal Cleaning of Passenger Cars," "What is the Best Color for Passenger Cars?" "Practical Cleaning and Varnishing of Passenger Cars," "Comparative Results of Painting Iron and Steel Tender Tanks," "Progress in Paint Spraying for Cars," "Can Old, Cracked, Painted and Varnished Surfaces Be Refilled, Colored and Varnished Successfully?" and "Can the Sand Blast Machine Be Successfully Used in the Preparation of Locomotive Work?" Two papers will also be presented: "Passenger Car Sanitation," Dr. J. H. Hurty, Secretary of the Indiana State Board of Health; "Has the Railway Paint Shop Kept Pace with the Times?" W. T. Leopold, Master Car Painter, Central R. R. of Georgia.

Robert McKeon, Secy.

NEW PUBLICATIONS.

"THE TECHNOGRAPH."—Engineering Society of the University of Illinois. Paper; 6 x 9 ins.; pp. 124; illustrated. 50 cts.

The contents of this issue of this publication of the students of the University of Illinois contains the following list of articles contributed by alumni, professors and undergraduates of the engineering department: Parks and Boulevards, by A. C. Schrader; Notes on Landscape Gardening as Applied to Parks and Boulevards, by James Jensen; Landscape Gardening—Past and Present, by Joseph Cullen Blair; The Machinery of an Office Building, by Fred. J. Thielbar; Holding Power of Anchor Bolts, by M. M. Wilcox; Dynamometer Car, by W. W. Webster and H. M. Ely; Strength of Coke Concrete, by Wm. H. Vance; Cement and Sand Required for a Yard of Mortar, by F. Grim; Requirements for Electric Elevators, by Melville C. Chatten; The Superintendent's Point of View, by Edwin C. Clarke; Duty Trial of the Aurora High Duty Pumping Engine, by L. P. Breckenridge; The American Societies of Engineers, by Horatio W Baker; Strength of Concerte as Affected by the Proportion of Mortar, by G. F. Beckerleg; The Railway Transition Spiral, by Arthur N. Talbot.

WATER SUPPLY AND IRRIGATION PAPERS of the U. S. Geological Survey.—No. 21, Wells of Northern Indiana. By Frank Leverett; pp. 82. No. 23, Water-right Problems of the Bighorn Mountains. By Elwood Mead; pp. 62. No. 26, Wells of Southern Indiana. By Frank Leverett; pp. 64. Paper; 9 x 6 ins.; illustrated.

No. 26 is actually a continuation of No. 21, and both deal with the underground water conditions in this state as affected by the geological formations. A detailed examination by counties is given, along with geological maps. No. 23 starts with the statement that in the arid states it is the mountains, and not the plains, that control agricultural development; for from the mountains come the streams that alone make agriculture possible. The Bighorn Range performs this service for a large section of Northern Wyoming, and Mr. Mead says that the records of the State Engineer's office show 1,051 adjudicated rights to water flowing from these mountains; with 269 claims not adjudicated, but recorded and approved, and perhaps 100 ditches using water for which no claim is filed. As the demand for water from any source increases and the limit of supply is about reached, priority of claim becomes an important question, and the practice in Wyoming is here set forth in detail and illustrated by prominent cases.

WATER-WORKS REPORTS.—The following water-works reports have been received, the names given being those of Superintendent unless otherwise noted:

Manchester, N. H., Chas. K. Walker. Metropolitan Water Board, Frederick P. Stearns, M. Am. Soc. C. E., Chief Engineer. Brookline, Mass., F. F. Forbes. Cambridge, Mass., Edwin C. Brooks. Fall River, Mass., P. Kieran. Fitchburg, Mass., Thos. C. Lovell, Lowell, Mass., Robt. J. Thomas. Lynn, Mass., John C. Haskell. Middleboro, Mass., Jos. C. Beals. Northampton, Mass., L. C. Wright. Reading, Mass., L. M. Bancroft. Somerville, Mass., Frank E. Merrill. Springfield, Mass., J. C. Hancock. Taunton, Mass., Geo. F. Chace. Waltham, Mass., Leroy Brown. Watertown, Mass., B. F. Davenport, President Water Committee. West Springfield, Mass., Report on Water Supply by Snow & Barbour, Engineers, Boston, Mass. Middletown, Conn., J. C. Broatch. New Britain, Conn., D. A. Harris. Albany, N. Y., Geo. I. Bailey. Binghamton, N. Y., Darwin Felter. Gloversville, N. Y., Elizabeth Beach. Newburgh, N. Y., Curtis Stanton. Schenectady, N. Y., Geo. T. Ingersoll. Yonkers, N. Y., Wm. H. Baldwin, Engineer. Atlantic City, N. J., W. C. Hawley, Assoc. M. Am. Soc. C. E. Bridgeton, N. J., Timothy Woodruff. Bradford, Pa., S. D. Heffner. Lancaster, Pa., Report on Filtration, Allen Hazen, Assoc. M. Am. Soc. C. E., New York city, Consulting Engineer. Wilmington, Del., J. A. Bond, Chief Engineer. Washington, D. C., W. A. McFarland. Richmond, Va., Chas. E. Bolling. Jacksonville, Fla., R. N. Ellis. Newport, Ky., Geo. Hornung, M. Am. Soc. C. E. Delaware, O., Valuation of Works, John W. Hill, M. Am. Soc. C. E., Cincinnati, O., Consulting Engineer. Oberlin, O., W. B. Gerrish, City Engineer. Wyoming, O., John W. Hill, Trustee. Indianapolis, Ind., Valuation of Works, John W. Hill, Consulting Engineer. Bay City, Mich., E. L. Dunbar. Oshkosh, Wis., Investigation of Quality of Supply, Floyd Davis, Chemist, Des Moines, Ia. St. Paul, Minn., John Caulfield, Secretary. Pasadena, Cal., Lake Vineyard Land & Water Co., T. D. Allin, Engineer; also report on Available Suplies for Municipal Plant, by J. B. Lippincott, Los Angeles.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

FIREPROOF CONSTRUCTION AND LIGHTING OF BUILDINGS.—P. H. Jackson & Co., San Francisco, Cal. Paper; 13¾ x 9¼ ins.; pp. 26; illustrated.

This pamphlet illustrates and describes sidewalk and vault construction; fireproof floors on the Jackson system; lighting and ventilating dark, underground rooms; arched skylights; waterproof sidewalk doors, etc.

BULLOCK ENGINE TYPE GENERATORS.—Bullock Electric Mfg. Co., Cincinnati, Ohio. Paper; 8 x 10 ins.; pp. 10.

This is Bulletin No. 0334 of this company, and is a well-illustrated pamphlet explaining the merits of the different details of its slow-speed generators, designed for direct connection to steam or gas engines, or water-wheels. Complete dimensional tables are given.

PUMPING MACHINERY, AIR LIFT AND AIR COMPRESSORS.—The American Well Works, Aurora, Ill. Paper; 6 x 9 ins.; pp. 48; illustrated.

This catalogue shows the Chapman air-lift system, and a variety of belted and direct-connected air compressors. The pumping machinery includes vertical and horizontal pumping engines, deep well pumps, triplex and centrifugal pumps, and casing and valves for wells.

EXPLOSIVES AND ELECTRIC BLASTING APPARATUS.—Laflin & Rand Powder Co., New York, N. Y. Oblong; paper; 6 x 9 ins.; pp. 48; illustrated.

The pamphlet opens with a short history of the company's plant, and gives some account of its marketing facilities. The products indicated by the title are described in considerable detail, and the paper throughout is well-printed, and well and suitably illustrated.

DRAFTING TABLES.—Laughlin-Hough Co., 30 Broad St., New York city. Paper; 6 x 9¼ ins.; pp. 16; illustrated.

These tables are of different forms, supported either on pedestals or legs. In one form, the table itself revolves, so that the draftsman need not move around it. Another table has a roll of detail paper at one end which passes along the table, and is held without thumb tacks. Several pages are devoted to testimonials.

WELL SINKING MACHINERY AND GASOLINE ENGINES.—The American Well Works, Aurora, Ill. Paper; 6 x 9 ins.; pp. 32; illustrated.

The catalogue shows the company's well-known plant for jetting and boring wells for water, gas, oil, etc., operated either by animals or by steam or gasoline engines. The section devoted to gasoline engines shows the Aurora engine as a stationary, portable and traction engine, and also as applied to the operation of deep-well pumps.

AUTOMATIC SIPHONS.—Berry Flush Tank Co., Iowa City, Ia. Paper; 4 x 6 ins.; pp. 8; illustrated.

This pamphlet describes a new automatic siphon for flush tanks. By resting the bell directly upon the tank floor, except where a depression is made to give the water access to the siphon, the whole contents of the tank are discharged at each flush. The short leg of the siphon is brought up to the floor of the tank and capped, and the outlet to the sewer is also near the floor, thus making these parts readily accessible for inspection.

THE STILLMAN RAILWAYS.—The Stillman Light Railway Development Co., Augusta, Me. 8vo.; paper; pp. 10.

This pamphlet describes a cheap form of railway designed by its inventor for use on country roads and for light electric car service, etc. The principal feature is the use of a rail made by slitting the head off from a worn out T-rail. The web is then held between two timbers and the inverted foot of the rail furnishes the wearing surface. The scheme appears to exist as yet only on paper.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Aug. 17.	Improving pond,	Boston, Mass.	Aug. 10
	Advertised, Engineering News, Aug. 10.		
Aug. 18.	Water-works,	Howard, S. Dak.	Aug. 10
Aug. 18.	Macadamizing,	Bristol, Conn.	Aug. 17
Aug. 19.	Asylum building,	Rome, N. Y.	Aug. 17
Aug. 20.	Dredging,	Franklin, Pa.	Aug. 3
Aug. 20.	Light station,	Dover, Del.	Aug. 17
Aug. 21.	Paving blocks,	Portland, Me.	Aug. 17
Aug. 21.	Life-saving station,	Rockport, Mass.	Aug. 17
Aug. 21.	Hospital building,	Dannemora, N. Y.	Aug. 17
Aug. 21.	Electric plant work,	Falls City, Neb.	Aug. 17
Aug. 21.	Dredging and pier,	New York, N. Y.	Aug. 17
Aug. 21.	Paving and curbing,	Dayton, O.	July 27
Aug. 21.	Intercepting sewers,	La Crosse, Wis.	July 27
	Advertised, Eng. News, July 27 to Aug. 17.		
Aug. 21.	Dredging,	Savannah, Ga.	July 27
	Advertised, Eng. News, July 27 to Aug. 17.		
Aug. 21.	School building,	Erie, Pa.	Aug. 3
Aug. 21.	Dock,	Kenosha, Wis.	Aug. 3
	Advertised, Eng. News, Aug. 3 to 17.		
Aug. 21.	Electric plant bonds,	Redwood City, Cal.	Aug. 3
Aug. 21.	Bridge,	Bement, Ill.	Aug. 10
Aug. 21.	Court house,	Rossland, B. C.	Aug. 10
Aug. 21.	School building,	Steelrun, O.	Aug. 10
Aug. 21.	Village hall,	McIntosh, Minn.	Aug. 10
Aug. 21.	Cement sidewalks,	Des Moines, Ia.	Aug. 10
Aug. 22.	Electric plant,	Bellaire, O.	Aug. 10
Aug. 22.	Main sewers,	South Nyack, N. Y.	Aug. 10
	Advertised, Engineering News, Aug. 10.		
Aug. 22.	Bridge bonds,	Indianapolis, Ind.	Aug. 10
Aug. 22.	Bridge,	La Moure, N. Dak.	Aug. 10
Aug. 22.	Bridge,	Downieville, Cal.	Aug. 10
Aug. 22.	Removing wreck,	Boston, Mass.	Aug. 10
Aug. 22.	Pier,	Ottawa, Ont.	Aug. 3
Aug. 22.	Jetty work,	Norfolk, Va.	July 27
	Advertised, Eng. News, July 27 to Aug. 10.		
Aug. 22.	Span to bridge,	Salem, N. J.	Aug. 17
Aug. 22.	Tramway supplies,	Darwen, England.	Aug. 17
Aug. 22.	Air lift, etc.,	Delphos, O.	Aug. 17
Aug. 22.	Levee,	Houston, Tex.	Aug. 17
Aug. 23.	School building,	Buffalo, N. Y.	Aug. 17
Aug. 23.	Lock boxes,	Washington, D. C.	Aug. 17
Aug. 23.	Laying water pipe,	Lorain, O.	Aug. 17
Aug. 23.	Lease of water power,	Chicago, Ill.	July 6
	Advertised, Engineering News, July 6.		
Aug. 23.	Pipe sewer and bridge,	Columbus, O.	Aug. 3
Aug. 23.	Library building,	Madison, Wis.	Aug. 10
Aug. 23.	Water bonds,	Pratt City, Ala.	Aug. 10
Aug. 23.	Electric plant,	Waupun, Wis.	Aug. 10
Aug. 23.	Water-works, etc.,	South Brooklyn, O.	Aug. 10
Aug. 24.	Bridge,	St. Clairville, O.	Aug. 10
Aug. 24.	Tunnel, sewers, tank, etc.,	Plymouth, Eng.	Aug. 10
Aug. 24.	Street improvements,	West New York, N. J.	Aug. 17
Aug. 24.	Fire escapes,	New York.	Aug. 17
Aug. 24.	Electric plant,	Utica, N. Y.	Aug. 17
Aug. 24.	Gates to bridges,	Brooklyn, N. Y.	Aug. 17
Aug. 24.	Bridge,	Andalusia, Ala.	Aug. 17
Aug. 24.	Sewer bonds,	Wilkesbarre, Pa.	Aug. 17
Aug. 24.	Paving,	Vineland, N. J.	Aug. 17
Aug. 24.	Paving,	Buffalo, N. Y.	Aug. 17
Aug. 24.	Steam heating, etc.,	Minneapolis, Minn.	Aug. 17
Aug. 24.	Brick sewers,	Springfield, Mass.	Aug. 17
Aug. 25.	Electric plant,	Summit, Miss.	Aug. 17
Aug. 25.	Railway work (18 miles),	Morenci, Ariz.	Aug. 17
	Advertised, Engineering News, Aug. 17.		
Aug. 25.	Street improvements,	Seneca, Ill.	Aug. 17
	Advertised, Engineering News, Aug. 17.		
Aug. 25.	Gravel road,	Terre Haute, Ind.	Aug. 17
Aug. 25.	Brick paving,	McConnellsville, O.	Aug. 3
Aug. 26.	Dredging,	Boston, Mass.	July 27
	Advertised, Eng. News, July 27 to Aug. 17.		
Aug. 26.	Dredging,	New York, N. Y.	July 27
	Advertised, Eng. News, July 27 to Aug. 17.		
Aug. 26.	Dry-dock,	Lewiston, Me.	July 27
Aug. 26.	Crane,	League Island Navy Yard, Pa.	July 27
Aug. 26.	Street improvements,	Nelsonville, O.	Aug. 3
	Advertised, Engineering News, Aug. 3.		
Aug. 26.	Dredging,	Milford Haven, Va.	Aug. 3
	Advertised, Engineering News, Aug. 3.		
Aug. 26.	Electric plant and lighting,	Evansville, Ind.	Aug. 10
Aug. 26.	School building,	Glen Ullin, N. Dak.	Aug. 10
Aug. 26.	Disappearing gun carriages,	Washington	Aug. 17
Aug. 26.	Macadamizing,	Bowling Green, O.	Aug. 17
Aug. 28.	Bridge superstructure,	Chicago, Ill.	Aug. 17
	Advertised, Eng. News, Aug. 17 and 24.		
Aug. 28.	Sewers,	Toledo, O.	Aug. 17
Aug. 28.	Sewer work,	Bristol, England.	Aug. 17
Aug. 28.	Lock approaches,	Nashville, Tenn.	Aug. 17
	Advertised, Eng. News, Aug. 17 and 24.		
Aug. 28.	Street railway franchise,	Berkeley, Cal.	Aug. 17
Aug. 28.	Water gates, etc.,	St. Louis	Aug. 17
Aug. 28.	Sidewalks,	Norwalk, O.	Aug. 17
Aug. 28.	Artesian wells,	Toledo, O.	Aug. 17
Aug. 28.	School buildings (2),	New Orleans, La.	Aug. 17
Aug. 28.	Street improvements,	Green Spring, O.	Aug. 17
Aug. 28.	Electric plant,	Perth, Scotland.	Aug. 10
Aug. 28.	Bridge,	Marietta, O.	Aug. 10
Aug. 28.	Bridge,	Shelbyville, Ind.	Aug. 10
Aug. 28.	Road,	Mobile, Ala.	Aug. 10
Aug. 28.	Improving water-works,	East Ashford, Eng.	Aug. 3
Aug. 28.	Macadamizing,	Richland Center, Wis.	Aug. 3
	Advertised, Engineering News, Aug. 3.		
Aug. 28.	U. S. Building,	Boise, Idaho.	Aug. 3
Aug. 28.	Suction dredge,	Charleston, S. C.	July 20
	Advertised, Eng. News, July 20 to Aug. 10.		
Aug. 28.	Hydraulic dredge,	Grand Rapids, Mich.	July 20.
	Advertised, Eng. News, July 20 to Aug. 10.		
Aug. 29.	Breakwater,	Gloucester Harbor, Mass.	Aug. 3
	Advertised, Eng. News, Aug. 3 to 31.		
Aug. 29.	Bridge,	Newark, N. J.	Aug. 10
	Advertised, Engineering News, Aug. 10.		
Aug. 29.	U. S. building work,	Buffalo, N. Y.	Aug. 10
Aug. 29.	Dormitories,	Dulce, N. Mex.	Aug. 10
Aug. 29.	Dredging,	Norfolk, Va.	Aug. 10
	Advertised, Eng. News, Aug. 10 and 17.		
Aug. 29.	School building,	Hurley, Wis.	Aug. 17
Aug. 29.	Bridge,	Birmingham, O.	Aug. 17
Aug. 29.	Water-works,	Renovo, Pa.	Aug. 17
	Advertised, Eng. News, Aug. 17 and 24.		
Aug. 30.	Locomotive,	Sophia, Bulgaria.	Aug. 17
Aug. 30.	School building plans,	Seattle, Wash.	Aug. 17
Aug. 30.	Machinery,	Enfield, England.	Aug. 17
Aug. 30.	Water-works,	Westbury, England.	Aug. 17
Aug. 30.	Water-works,	Davenport, Wash.	Aug. 17
Aug. 30.	Ditch,	Marion, O.	Aug. 17
Aug. 30.	Bridge,	Indianapolis, Ind.	Aug. 10
Aug. 30.	U. S. building,	St. Paul, Minn.	Aug. 10
Aug. 30.	Paving brick,	Danville, Va.	Aug. 10
	Advertised, Eng. News, Aug. 10 to 24.		
Aug. 30.	Army buildings,	San Francisco, Cal.	Aug. 3
Aug. 30.	Court house,	Auburn, Neb.	Aug. 3
Aug. 30.	School building plans,	Seattle, Wash.	July 13
Aug. 31.	Railway (124 miles),	Vera Cruz, Mexico.	July 6
Aug. 31.	Steel bridge,	Mexico, Mexico.	July 6
Aug. 31.	Court house,	Ellaville, Ga.	July 20
Aug. 31.	College building,	College Station, Tex.	Aug. 3
Aug. 31.	Electric plant,	London, England.	Aug. 3
Aug. 31.	School building,	Jersey City, N. J.	Aug. 10
Aug. 31.	Bridge,	Des Moines, Ia.	Aug. 10
	Advertised, Engineering News, Aug. 10.		
Aug. 31.	Postoffice building,	Newport, Ky.	Aug. 10
Aug. 31.	Water-works,	Crisfield, Md.	Aug. 17
	Advertised, Eng. News, Aug. 17 and 24.		
Aug. 31.	Reservoir and dam,	Lansingburg, N. Y.	Aug. 17
	Advertised, Eng. News, Aug. 17 and 24.		
Aug. 31.	Water mains,	Lansingburg, N. Y.	Aug. 17
	Advertised, Eng. News, Aug. 17 and 24.		
Sept. 1.	Infirmary building,	Erie, Pa.	Aug. 17
Sept. 1.	Building repairs,	New York, N. Y.	Aug. 17
Sept. 1.	Grading,	Paterson, N. J.	Aug. 17
Sept. 1.	Bayou improvement,	New Orleans, La.	Aug. 17
Sept. 1.	Cleansing water supply,	Richmond, Mo.	Aug. 17
Sept. 1.	Water-works,	Baltimore, Md.	Aug. 10
	Advertised, Engineering News, Aug. 10		
Sept. 1.	Paving,	Elizabeth, N. J.	Aug. 10
Sept. 1.	Bridge,	Caldwell, Idaho.	Aug. 10
Sept. 1.	Water-works,	Rocky Mount, N. C.	Aug. 10
	Advertised, Eng. News, Aug. 10 and 17.		
Sept. 1.	Town hall plans,	Workington, England.	Aug. 3
Sept. 1.	Electric lighting,	Williamsport, Pa.	Aug. 3
Sept. 1.	Canal work,	Columbia River, Ore.	July 20
	Advertised, Eng. News, July 20 to Aug. 3.		
Sept. 1.	Electric plant,	Malmo, Sweden	July 20
Sept. 2.	Hall building,	Lakota, N. Dak.	Aug. 3
Sept. 2.	Road improvement,	Cincinnati, O.	Aug. 10
Sept. 2.	Electric plant, etc.,	Portsmouth, N. H.	Aug. 10
Sept. 2.	Superstructure bridge,	Cincinnati, O.	Aug. 10
Sept. 2.	Workshop, etc.,	Philadelphia, Pa.	Aug. 17
Sept. 2.	Heating, plumbing, etc.,	Indianapolis, Ind.	Aug. 17
Sept. 2.	Excavation,	Cincinnati, O.	Aug. 17
	Advertised, Eng. News, Aug. 17 and 24.		
Sept. 2.	Levee work,	Claryville, Mo.	Aug. 17
Sept. 2.	Bridge superstructure,	Toronto, Ont.	Aug. 17
Sept. 2.	Paving,	Norfolk, Va.	Aug. 17
Sept. 4.	School building,	Humboldt, Minn.	Aug. 17
Sept. 4.	Electric lighting,	Columbia, Pa.	Aug. 17
Sept. 4.	Ditch,	Algona, Ia.	Aug. 17
Sept. 4.	Dock improvements,	Belfast, Ireland.	Aug. 17
Sept. 4.	Paving,	Toledo, O.	Aug. 10
Sept. 4.	Tugboat,	Wilmington, N. C.	Aug. 10
	Advertised, Eng. News, Aug. 10 to 31.		
Sept. 4.	Library building,	West Point, N. Y.	Aug. 10
	Advertised, Eng. News, Aug. 10 to 31.		
Sept. 4.	Bridge,	New Ulm, Minn.	Aug. 10
Sept. 4.	Electric plant,	West Point, N. Y.	Aug. 10
	Advertised, Eng. News, Aug. 10 to 31.		
Sept. 5.	Pumping engine, etc.,	Kidderminster, Eng.	Aug. 3
Sept. 5.	Sewers (24 miles),	Jackson, Miss.	Aug. 10
	Advertised, Eng. News, Aug. 10 to 24.		
Sept. 5.	Road improvement,	Cincinnati, O.	Aug. 10
Sept. 5.	Macadam,	Plainfield, N. J.	Aug. 10
Sept. 5.	Rubble stone,	Boston, Mass.	Aug. 10
	Advertised, Eng. News, Aug. 10 to 24.		
Sept. 5.	Sewer,	Oshkosh, Wis.	Aug. 17
Sept. 5.	Sewerage tank,	Mount, Vernon, N. Y.	Aug. 17
	Advertised, Eng. News, Aug. 17 to 31.		
Sept. 5.	School building,	Phoenix, Ariz.	Aug. 17
Sept. 5.	Bridge,	Alexandria, S. Dak.	Aug. 17
Sept. 5.	Dredging,	San Francisco, Cal.	Aug. 17
Sept. 5.	Park entrance,	Newark, N. J.	Aug. 17
	Advertised, Eng. News, Aug. 17 to 24.		
Sept. 5.	Water-works and bonds,	Sardis, Miss.	Aug. 17
Sept. 5.	Electric plant,	St. Paris, O.	Aug. 17
Sept. 5.	Road improvements,	New Rochelle, N. Y.	Aug. 17
Sept. 5.	Bridge,	Avoca, Ky.	Aug. 17
Sept. 6.	Bridge,	Roseburg, Ore.	July 27
Sept. 6.	Bridge substructure,	Toronto, Ont.	Aug. 17
Sept. 7.	Dredging, etc.,	Union River, Me.	Aug. 10
	Advertised, Eng. News, Aug. 10 to 31.		
Sept. 7.	Heating, etc.,	Toledo, O.	Aug. 17
Sept. 8.	River bank improvement,	Cincinnati, O.	Aug. 17
Sept. 8.	Paving,	Veedersburg, Ind.	Aug. 17
Sept. 9.	Brick paving,	Janesville, Wis.	Aug. 17
Sept. 11.	Breakwater,	Oswego, N. Y.	Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 11.	Steamboat,	Wilmington, N. C.	Aug. 10
	Advertised, Eng. News, Aug. 10 to 31.		
Sept. 12.	Breakwater,	New York, N. Y.	Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 13.	Street improvements,	Hoboken, N. J.	Aug. 17
Sept. 13.	Lock and dam,	Mobile, Ala.	Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 14.	Capitol annex,	Charleston, W. Va.	Aug. 17
Sept. 14.	River improvements,	Richmond, Va.	Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 15.	Dredging,	Newport, R. I.	Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 16.	Dredging,	Urbana Creek, Va.	Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 20.	Superstructure to bridge,	Chicago, Ill.	Aug. 3
	Advertised, Engineering News, Aug. 3.		
Oct. 1.	Electric street railway,	Moscow, Russia.	Mar. 9
Nov. 1.	Water-works,	Nicolaiev, Russia.	June 15
Nov. 1.	Protected cruisers,	Washington, D. C.	July 13
Nov. 3.	Garbage crematory,	Sydney, N. So. Wales.	Aug. 17
Nov. 28.	Quays, etc.,	Alexandria, Egypt.	Aug. 10
No date.	Plans for jail,	Norfolk, Va.	July 27
	Advertised, Eng. News, July 27 to Aug. 17.		
"	Street lighting,	Islip, N. Y.	Aug. 3
	Advertised, Engineering News, Aug. 3.		
No date.	Water pumps, etc.,	Middletown, Del.	Aug. 10
	Advertised, Engineering News, Aug. 10.		
No date.	Grain elevator,	Graceville, Minn.	Aug. 17
"	Bridge,	Santa Ana, Cal.	Aug. 17
"	Structural steel,	New York, N. Y.	Aug. 17
	Advertised, Engineering News, Aug. 17.		
"	Light plant,	Kota-Radja, Sumatra.	Aug. 17
"	Sewers,	Wellsville, O.	Aug. 17
"	Sewers and water-works,	Burnham, Pa.	Aug. 17
"	Power plant,	Washington, D. C.	Aug. 17

RAILWAYS.

ALGOMA CENTRAL.—F. H. Clergue, Pres., Sault Ste. Marie, Ont., informs us that contracts will be let immediately for constructing this proposed railway from Sault Ste. Marie to Hudson Bay, a distance of 400 miles. Surveys have been made and the necessary capital secured. H. E. Talbott, Ch. Engr., Sault Ste. Marie, Ont.

ATLANTIC & LAKE SUPERIOR.—E. Berryman, Engr., has completed an exploration survey of this proposed line between Port Daniel and Gaspe Basin, Que., 90 miles, following the York River for about 20 miles. Subsidies having been voted by the Dominion parliament, permanent locations will be begun at once westward from Gaspe.

ATLANTIC COAST LINE.—N. G. Wade, Ashepoo, S. C., has received the contract for extending the Southwestern R. R. from Ashepole to Boardman, formerly Hub, N. C., 10½ miles, where it will connect with the Wilmington & Conway Ry. About three miles of grading has already been done by state convicts.

ATLANTIC, VALDOSTA & WESTERN.—This company has finished the running of three survey lines between Valdosta and Albany, Ga. The connection between Valdosta and Jacksonville was recently completed. Walter Ferguson, Pres., 18 Wall St., New York; F. W. Long, Ch. Engr., Gardner Bldg., Jacksonville, Fla.

BIRMINGHAM SOUTHERN.—This company has begun surveys for an extension of its lines from slope No. 5 to slopes Nos. 8 and 9 of the Tennessee Coal, Iron & R. R. Co.'s mines, a distance of about two miles. N. Baxter, Jr., Pres., Birmingham, Ala.

BRADFORD CENTRAL.—The American Railway Construction Co. has been incorporated in New Jersey, with $100,000 capital stock, to construct a new line from Canton, on the Northern Central R. R., to Towanda, Pa.,

on the Lehigh Valley R. R., about 30 miles, through a rich timber and coal district. A. F. Chapman, Pres.; John L. White, Vice-Pres.

BULGARIA.—Bids are asked by the Bulgarian State Rys. until Aug. 22 for the supply of a number of passenger cars and good wagons, and until Aug. 30 for locomotives. P. Popoff, Ch. Engr., Sophia, Bulgaria.

CAROLINA & NORTHWESTERN.—William A. Barber, New York, is reported to have bought a controlling interest in this company with the intention of changing the road between Chester, S. C., to Lenoir, N. C., from narrow to a standard gage, and of extending it to Bristol, Va.

CHICAGO & NORTHWESTERN.—This railway is now constructing new lines as follows: (1) from Denison, Ia., up the Boyer River Valley to Wall Lake, Ia.; (2) from Mondamin, Ia., up the Soldier River Valley and through to Wall Lake, Ia.; (3) from Sanborn, Minn., southeast to Burt, Ia.; (4) from Mankato, Minn., up the Minnesota River Valley to New Ulm, Minn. E. C. Carter, Prin. Asst. Engr., Chicago, Ill.

COLORADO FUEL & IRON CO.—J. R. De Remer, 805 17th St., Denver, Colo., has been awarded the contract for building a spur line of the Union Pacific from Badger to this company's mines near Hartville, Wyo. Work has been begun, and it is expected to be completed this fall.

COLUMBUS, BLOOMINGTON & TERRE HAUTE.—Bloomington township, Monroe county, Ind., which includes the greater part of the city of Bloomington, has voted a $55,000 subsidy to this proposed railway; estimated cost, $900,000. W. H. Rights, Ch. Engr., Columbus, Ind.

COLUMBUS, MARSHALL & NORTHEASTERN.—This company has given a mortgage of $2,800,000 to the New York Security & Trust Co., in order to obtain money with which to construct its proposed line from Marshall to Bay City, via Olivet, Vermontville, Portland, Lyons, Alma and Midland, Mich., 140 miles. John Seymour, Hudson, Mich., is said to have received the contract for construction; work will begin soon. C. E. Sawyer, Ch. Engr., Marshall, Mich.

COLUMBIA VALLEY.—L. Gerlinger, Pres., Vancouver, Wash., informs us that the survey has been nearly completed and that the right of way is now being secured for this proposed line from Vancouver to Wallula, Wash., on the Columbia River, 230 miles. J. W. Coovert, Ch. Engr., Vancouver.

CUBA.—Francisco Rasco, of Rodas, Santa Clara, Cuba, is reported to have been appointed manager of a railway to be rebuilt from the town of Rodas to Carthagena, 27 miles. He will buy new equipment, rolling stock and considerable supplies, and a new machine shop will be erected at Rodas.

DELAWARE & HUDSON.—Drake & Stratton, 100 Broadway, New York, are reported to have the contract for constructing eight miles of new track on this company's new route across the Moosic Mountains, between Honesdale and Carbondale, Pa. Work is expected to be completed by Dec. 1.

DENVER & RIO GRANDE.—Work has been resumed, according to reports, on the construction of the 23 miles of new roadbed between La Veta and Placer, Colo. The work is very heavy, but it is expected to be completed by Sept. 15. Clough & Anderson, Colorado Springs, Colo., are the principal contractors. M. H. Rogers, Ch. Engr., Denver, Colo.——Contracts are reported to have been awarded for constructing this proposed Rio Grande, Pagosa & Northern branch from Gato to Pagosa Springs, Colo., about 30 miles.

DETROIT COPPER MINING CO.—Bids are asked until Aug. 25 for the grading and timber construction on about 18 miles of heavy narrow gage railway at Morenci, Ariz., as stated in our advertising columns. M. W. Wambaugh, Ch. Engr.; C. E. Mills, Supt., of Morenci.

DOTHAN, HARTFORD & FLORIDA.—J. P. Pelham, Pres., Dothan, Ala., informs us that contracts will be let Sept. 15 for constructing part of this proposed line to run from Hartford to St. Andrews, via Chipley and Graceville, Ala., 106 miles. The survey has been completed and 25 miles of the right of way obtained, but the capital for construction has not yet been secured.

EASTERN ILLINOIS & MISSOURI.—W. S. Dawley, Ch. Engr., 355 Dearborn St., Chicago, Ill., informs us that grading and bridging are in progress on this extension of the Chicago & Eastern Illinois R. R. from Marion to Thebes, via Goreville and Ullin, 62 miles. About five miles of track had been laid up to Aug. 10.

EGYPT.—Press reports state that this country will ask for bids for rails in October. F. E. Robinson, Pres. State Rys., Cairo, Egypt.

GERMANY.—A special credit of $12,500,000 is reported to have been granted for additional rolling stock for the German state railways. Of this amount, $8,750,000 is to be applied to the purchase of locomotives and $3,750,000 to the purchase of additional trucks.

KNOXVILLE & BRISTOL.—Knox county voted Aug. 10 to subsidize this proposed railway. Hawkins county also voted in favor of the road, but Sullivan and Grainger counties voted against it. Harry J. Braker, Pres., 20 Broad St., New York; J. A. Simmons, Promoter.

MANHATTAN & JERSEY CITY.—This company applied to the board of aldermen of New York Aug. 15 for a franchise to construct a double tunnel under the North River. It is intended that the Manhattan terminal shall be at Liberty and Washington Sts., and that the tunnel shall be built under Washington St. to Dey St., and thence beneath the river to Jersey City. A branch tunnel is proposed from Washington and Cortlandt Sts. west under Cortlandt St. and West St. and to enter the river at the foot of Cortlandt St. E. C. Moore, Pres., 130 Pearl St., New York; Chas. P. Bleecker, Ch. Engr. The application was referred, and Sept. 18 was set for a public hearing.

MONONGAHELA & WASHINGTON.—Jos. M. Crawford, Ch. Engr., Philadelphia, Pa., informs us that the location is now being revised and the right of way being taken for this new line from Monongahela City to Bentleysville, Pa., 12½ miles. Samuel Rea, Fourth Vice-Pres. Pennsylvania R. R., Philadelphia, is president.

McKEES ROCKS.—Incorporated in Pennsylvania, Aug. 11, to construct a steam railway in Allegheny county, Pa. E. A. Shoen, Pres., Sewickley, Pa.; Bryan Robertson, Pittsburg, and Chas. V. McLaughlin, Allegheny, Pa., are incorporators.

NORTHERN PACIFIC.—Reports state that this company has awarded a contract for 28 miles of new road construction in Manitoba. Twenty miles of this will extend from Portage la Prairie, between the Manitoba & Northwestern and the main line of the Canadian Pacific, in a northwesterly direction; eight miles will extend north from Portage la Prairie. E. H. McHenry, Ch. Engr., St. Paul, Minn.

REYNOLDSVILLE & FALLS CREEK.—F. M. Brown, Ch. Engr., Reynoldsville, Pa., informs us that the survey has been made, the right of way obtained and about one mile of grading completed on the extension of this line from Reynoldsville to Hopkins, three miles. McAtee & Co., Curwensville, Pa., are the contractors. Lucius W. Robinson, Pres., Punxsutawney, Pa.

PITTSBURG, SHAWMUT & NORTHERN.—This is a new railway, formed by a combination of about seven small lines, with an aggregate length of about 350 miles. Connecting links will be built to complete the system and to extend the line from Macedon to Brookville, Pa. John Byrne, Pres., 54 Wall St.; Wm. B. Parsons, Ch. Engr., 22 William St., both of New York.

SPAIN.—Jaime Bache, Plaza del Angel 18, Madrid, Spain, announces through the United Exporters' and Traders' Association of America that a concession has been obtained, plans prepared and a survey made for a proposed railway to run from Madrid to the seaport town of Santander, via Burgos, 451 kilometers (280 miles). The gage is 1 meter (3.21 ft.). Work can begin at once by any company with about $12,000,000 capital.

WATONWAN VALLEY.—W. A. Scott, Pres., St. Paul, Minn., informs us that it is expected to complete the construction of this new line by Sept. 1. The route is from Madelio to Fairmont, Minn., about 20 miles; and the Chicago, St. Paul, Minneapolis & Omaha Ry. is interested

STREET AND ELECTRIC RAILWAYS.

CONCORD, MASS.—Wm. S. Reed, Leominster, Mass.; Elmer E. Chain, Boston, and Chas. W. Shippee, Milford, Mass., are reported to be interested in the proposed Concord, Maywood & Hudson St. Ry., to run from Concord to Hudson, 9½ miles.

MILFORD, MASS.—The Interstate St. Ry. Co., Providence, R. I., is said to have made a proposition to the Milford, Woonsocket & Attleboro St. Ry. Co. to extend its tracks from the Woonsocket terminus to Pawtucket, five miles, and there connect with the Interstate's line, giving a continuous connection from Providence to Milford. The Interstate has a branch running from Providence to Attleboro, and connection with the former city from Milford will be afforded without the building of any link. The Milford, Attleboro & Woonsocket road is now in process of construction, the roadbed from Woonsocket to Franklin, with exception of laying the rails, being completed, and it is expected that cars will be running between these two points early in September.

SOMERVILLE, MASS.—This city has granted the West End St. Ry., operated by the Boston Elevated Ry. Co., a location on Broadway and College and Boston Aves. A. L. Plimpton, Engr.

WESTFIELD, MASS.—F. H. Coffin has been awarded the contract for erecting a new brick car-house, 100 × 50 ft., near the present structure on the Highlands, for the Woronoco St. Ry. Co. Work on the new roadbed is in progress; new cars are being built by the Wason Car Co., Springfield, Mass.

NEW HAVEN, CONN.—A. E. Pond, Supt. of Winchester Ave. R. R. Co., West Haven, informs us that the extent of the improvements to this system will probably consist in the construction of one-half mile of track and a new car barn. H. Ackrill, Ch. Engr., New Haven.

MOUNT VERNON, N. Y.—Dawson & Archer, Mount Vernon, have been awarded the contract for erecting a power house and barn for the Union Ry. Co., of New York, at the end of South Fulton Ave., to cost about $75,000. Work has been commenced on the extension of the Union Ry. up North 4th Ave. to White Plains. It is expected to have the line completed to Bronxville by September. E. A. Maher, Pres. and Mgr., 128th St. and 3d Ave., New York.

PHOENIX, N. Y.—The village trustees have granted a 50-year street railway franchise to Edward Quirk, Fulton, N. Y. The line must be completed within three years.

SAYVILLE (L. I.), N. Y.—The construction of an electric railway is said to be contemplated from Sayville to Crane's Neck Point, via Port Jefferson, Stony Brook and Bohemia, N. Y., nine miles. D. F. Myers, American Tract Society Bldg., New York, is said to represent the capitalists interested.

TARRYTOWN, N. Y.— John B. Walker and others, of Tarrytown, are said to be considering the construction of about six miles of additional street railway here.

ORANGE, N. J.—The Orange & Passaic Valley R. R. Co., operating the line between Orange Valley and Bloomfield, will erect a new brick and iron car barn, 80 × 190 ft., at Washington and Cleveland Sts., to contain 80 cars.

PLAINFIELD, N. J.—A public hearing will be held Sept. 5 to discuss the granting of a franchise to the Plainfield St. Ry. Co. to locate a line on Arlington Ave.

TRENTON, N. J.—We are informed that the Mercer County Traction Co., recently incorporated with $100,000 capital stock, has been organized for the purpose of extending the Trenton St. Ry. Henry C. Moore, Pres.

WESTFIELD, N. J.—The Westfield township committee Aug. 14 granted a franchise for the last link in the trolley line of the Elizabeth & Westfield St. Ry. Co. It is expected that cars will be running between Plainfield and Elizabeth by Oct. 1.

LEBANON, PA.—Reports state that the construction of an extension of the Lebanon & Annville St. Ry. from Annville to Palmyra would soon be undertaken.

NANTICOKE, PA.—The People's Traction Co., which operates a line from Nanticoke to Glen Lyon, has surveyed a line to run to Hazleton via Triangular Lake and Long Pond. F. P. Gardner, Supt.

NAZARETH, PA.—The Nazareth & Farmersville Ry. Co. was incorporated Aug. 14, with $9,000 capital stock, to construct an electric railway in Northampton county. Joseph J. McKee, Pres., Bethlehem, Pa.; Andrew S. Keck, Allentown, Pa., and G. A. Schneebeli, Nazareth, are incorporators.

PITTSBURG, PA.—Franchises have been granted by the councils to the Homewood Traction Co. over Murray Hill Ave. to Braddock Ave., and to the Pittsburg & Swissvale Traction Co., from Forbes St. to the eastern city line. The Monongahela Traction Co. is said to be interested.

SCOTTDALE, PA.—The Scottdale, Mount Pleasant & Connellsville St. Ry. is said to have awarded a contract for constructing about one mile of its line in this town. Wm. H. Graham, Pres., Allegheny, Pa.

BALTIMORE, MD.—Plans have been completed by Baldwin & Pennington, Archs., Baltimore, for the shops to be built by the United Railways & Electric Co. on Columbia Ave., Bush, Nanticoke and Putnam Sts. They call for a large car barn, 370 × 368 ft.; a paint shop, 240 × 310 ft.; a motor-erecting shop, 130 × 210 ft.; an erecting shop, 270 × 260 ft.; a cabinet shop, 270 × 85 ft.; mill shop, 130 × 270 ft.; power house, 80 × 100 ft.; store-room, 175 × 180 ft.; two machine shops, 90 × 285 ft., and 90 × 368 ft.; an armature room, 80 × 90 ft.; and two blacksmith shops, each 90 × 200 ft. The buildings will be one-story in height, and of brick with iron roofs.

LYNCHBURG, VA.—The New England Engineering Co., Waterbury, Conn., is stated to have been awarded the contract for erecting the new power house of the Lynchburg St. Ry. & Electric Light Co. The building, 54 × 10 ft., will be equipped throughout with the latest improved machinery, which will furnish the power for both the street railway and electric lights. The old plant will be abandoned. Edward G. Frye, Arch., Lynchburg.

RICHMOND, VA.—Messrs. Boyd, Newton, Mayo and others, of Richmond, are reported to have bought the property of the Richmond Ry. & Electric Co. with the intention of spending about $500,000 on a complete reconstruction of the system.——W. L. Royall, Richmond, of the Richmond & Petersburg Electric Ry. Co., states that the contract for constructing this line down the Petersburg turnpike has been let and that work will soon be started.

ATLANTA, GA.—The council has recommended the granting of franchises allowing the construction of several extensions by the Atlantic Consolidated St. Ry. Co. and the Collins Park & Belt R. R. Co.

LEXINGTON, KY.—The Lexington St. Ry. Co. is contemplating the erection of a new power house to be equipped with improved machinery. No extension will probably be built before the spring.

DOYLESTOWN, O.—The council has granted a franchise to A. E. Townsend, Cambridge, O., for the construction of an electric railway through the town. The line will run from Barberton to Easton.

HARTWELL, O.—Bids are being asked by this village for the purchase of a 25-year franchise to operate a street railway through this place. It is said that the Mill Creek Valley St. Ry. Co. will be the only bidder.

SANDUSKY, O.—The Sandusky, Milan & Norwalk Traction Co. has been incorporated with a capital stock of $400,000. This is said to be simply another step towards consolidation with the People's Electric Ry. Co. Samuel R. Bullock, Sandusky, is the local representative of the promoters.

OREGON CITY, ORE.—G. C. Fields has been granted a franchise by the county commissioners to build from this city to Canemah.

AUBURN, CAL.—J. H. Wills has applied for an electric railway franchise in this place. The city clerk has been instructed to advertise for bids for the same.

BERKELEY, CAL.—Bids are asked by this town until Aug. 28 for the purchase of several franchises, as applied for by the Oakland R. R. Co. M. L. Hanscom, Town Clk.

SAN JOSE, CAL.—Adolph Greeninger has petitioned the council for a franchise for an electric railway to be built on San Fernando and 5th Sts.

DARWEN, ENGLAND.—Bids are asked by the town until Aug. 22 for steel rails, fish-plates, sole-plates, tie-bars, bolts, etc., for electrical tramways. Charles Costeker, Town Clk.

GLASGOW, SCOTLAND.—The Glasgow tramway committee voted Aug. 15 to accept the bid of the E. P. Allis Co., Milwaukee, Wis., for furnishing the engines to supply electric power, at £114,544 ($572,720).

FAYET, FRANCE.—Consul Skinner, at Marseilles, France, writes that the Paris, Lyons & Mediterranean Ry. Co., 88 Rue St. Lazere, Paris, will construct an electric railway between Fayet and Chamounix, at the foot of Mont Blanc, power to be furnished by the River Arve. Each car will be supplied with its own dynamo. The contract for building the road proper has been let to Gagner & Freres, Annency, France, and for providing the water power, to Richard & Meynard, Avignon, France.

ELECTRIC LIGHT AND POWER.

BRUNSWICK, ME.—Work will be begun at once on a power dam to cost $6,000 for the Cabot Mfg. Co., according to reports.

FREEPORT, ME.—Subscriptions for lights for the proposed plant are being secured. Tim. Pratt and F. M. Grant are interested.

NEW HAVEN, CONN.—The Connecticut Lighting & Power Co., it is stated, proposes to improve its plant and to equip certain factories in the Naugatuck valley with electricity.

NIANTIC, CONN.—We are informed that plans for the proposed plant here will probably be completed in about two weeks. Butts & Crosby, Engrs., 49 Pearl St., Hartford, Conn.

BROOKLYN, N. Y.—The bureau of supplies and accounts, Navy Department, Washington, received the following bids Aug. 8 for power plant complete and electric cranes for the navy yard: (1) A. P. Allis Co., Milwaukee, informal. (2) Wm. Sellers & Co., Inc., 1600 Hamilton St., Philadelphia, (3) Manning, Maxwell & Moore, 85 Liberty St., New York. (4) Brown Hoisting & Conveying Machine Co., 26 Cortlandt St., New York. (5) Morgan Engineering Co., Alliance, O. (6) Niles Tool Works Co., 34 and Mill Sts., Hamilton, O. (7) Pawling & Harnischfeger, 156 Clinton St., Milwaukee. (8) The United Co., 13 Park Row, New York. (9) The Westinghouse Electric & Mfg. Co., Pittsburg. (10) Bullock Electric Co., 220 Broadway, New York. Class 1.—Power plant complete, (9) $149,800 to $175,100; (10) $187,953, $189,157; (8) $184,640 to $189,740; (1) informal. Class 2.—One four-motor electric traveling crane: (7) $10,000, $10,500; (6) $10,970, $11,130, $11,410; (5) $11,130, $14,530; (2) $11,290; (4) $13,886; (3) $14,117, $17,443. Class 3.—One three-motor electric traveling crane: (6) $7,195, $7,379, $7,616; (7) 7,200, $7,500; (5) $6,930, $8,405; (2) $8,150; (4) $9,170; (3) $9,442, $11,627. Class 4.—Two three motor electric traveling cranes, 15 tons: (7) $8,750, $8,800; (6) $9,880, $10,133, $10,454; (5) $9,860, $13,860; (4) $11,580; (3) $11,926, $15,919; (2) $12,100. Class 5.—Two three-motor electric traveling cranes, 13 tons: (7) $8,750, $8,800; (6) $9,860, $10,112, $10,434; (5) $9,860, $13,860; (4) $11,580; (3) $11,926, $15,919; (2) $12,100.

CANANDAIGUA, N. Y.—M. Dwight Munger has applied for a franchise for a new plant and water-works. President Warfield, Messrs. Hutchins and Andruss, of the board, may be addressed. Mr. Munger writes us that if he secures the franchise he shall want dynamos, engines, etc., unless the price advances so much that it would not be an object to make the investment. He wants to know the price of No. 6. insulated copper wire, what per cent. electrical apparatus has advanced in the last six months, and any other general information.

GREEN ISLAND, N. Y.—The question of making an improvement to the plant is being considered. H. S. Henp, Chn. Com.

LYONS, N. Y.—It is stated that work on the plant of the Lyons Electric Light, Heat & Power Co. will be begun at once; estimated cost, $25,000.

MOUNT MORRIS, N. Y.—The Genesee Power Co. will spend about $40,000 on the proposed dam here, work on which will be begun before Oct. 1. It is stated that the company will build its proposed dam and reservoir here to cost $3,000,000. Geo. W. Rafter, Engr., Rochester.

NEW YORK, N. Y.—Robert Biel, Chicago, who recently purchased Koster & Bial's Music Hall, will put in a new plant.

SCHENECTADY, N. Y.—The Empire State Power Co., just incorporated, will build four power dams on Schoharie Creek. The main plant will be at Burtonville and will develop 10,000 HP. De Witt A. Devendorf, Fort Hunter, N. Y., may be addressed.

UTICA, N. Y.—Bids are asked by the Utica Electric Light & Power Co. until Aug. 24 for furnishing the materials and for erecting the plant at Trenton Falls. The plans provide for the erection of a dam 50 ft. high and 200 ft. long; for a cut 2,500 ft. in length along the west side of the gorge; excavations for a site for the power house; for the erection of the power house itself and the construction of a tail race. W. A. Breckenridge, Engr., Niagara Falls, N. Y.

TRENTON, N. J.—Col. A. R. Kuser and Col. Wm. Perrine, Trenton, have purchased the water power at Rancocas Creek and will build a plant.

VINELAND, N. J.—An election will soon be held to vote on the question of issuing $25,000 in bonds for a plant.

COLUMBIA, PA.—Bids are asked until Sept. 4 for lighting this city with electricity or gas for one or three years from Oct. 1. Adam Rodenhauser, Chn. Com.

FORD CITY, PA.—The Ford City Electric Light, Heat & Power Co., it is stated, will soon begin the construction of its plant.

NEW CASTLE, PA.—J. A. Gardner, City Attorney, writes us that a resolution has been introduced authorizing the construction of the plant, but as bonds have to be issued there is nothing likely to be done for some months.

DOVER, DEL.—Bids are asked until Aug. 20 for erecting a light station. It is stated that the Westinghouse Electric & Mfg. Co. has the contract for the machinery; estimated cost, $12,000. New bids for the 5% bonds have been asked. W. M. Hazel, Chn. Com.

WASHINGTON, D. C.—Fire on Aug. 10 destroyed one of the buildings of the light plants of the Washington Traction & Electric Co., causing a loss of about $50,000. The building was used for the storage of electrical appliances, and for stable and office purposes.

WASHINGTON, D. C.—Bids are reported as being received by the Great Falls Power Co., Washington, for constructing its dam at Great Falls, on the Potomac River. The power will be transmitted to this city for lighting and for use by the Washington Traction & Electric Co., the officials of which have control of the power company. A canal will also be built.

HAGERSTOWN, MD.—The council has voted to grant a franchise for a light and telephone subway to R. B. Hazlepp; estimated cost, $20,000.

GASTONIA, N. C.—An election was held Aug. 15 to vote on the question of issuing $15,000 in bonds for works. W. H. Lewis, Mayor.

UNIONTOWN, ALA.—The council has been asked to grant a franchise.

NATCHITOCHES, LA.—Geo. C. Morgan, Royal Insurance, Bldg., Chicago, is preparing plans for a plant and water-works to cost about $25,000.

SUMMIT, MISS.—Bids are asked until Aug. 25 for erecting a plant to cost $8,000. Address S. A. Manken, City Secy., or the Mayor.

BROWNSVILLE, TENN.—The plant of the Brownsville Electric Light Co. was burned Aug. 8; loss reported at about $8,000.

MASSILLON, O.—The council is considering the question of either awarding a new contract for lighting or of building a municipal plant. C. A. Kouth, J. A. Jacoby and A. J. Lewis are on the committee.

ST. PARIS, O.—Bids are asked until Sept. 5 for constructing a plant to cost $15,000. Hays Construction Co., Engrs., Troy, O.; A. C. Bolinger, Mayor.

JEFFERSONVILLE, IND.—The Wayne Construction Co., Fort Wayne, Ind., has been awarded the contract for putting in the plant.

BATTLE CREEK, MICH.—A. D. Ordway, Battle Creek, has prepared plans for a brick power house, to cost $70,-000, and an exhibition hall, to cost $4,000, for the Advance Thrasher Co., of this city.

FLINT, MICH.—F. D. Lane, Supt. People's Electric Light Co., writes us that the contract for building the extension to the plant has been let, but the company has yet to buy condenser, pumps and traveling crane.

FALLS CITY, NEB.—Bids are asked until Aug. 21 for removing a boiler, enlarging the plant and building foundations for a new engine, recently purchased. M. N. Bair, Cy. Engr.

KANSAS CITY, MO.—J. E. Jewell, 525 New York Life Bldg., Kansas City, writes us that the matter of a municipal plant is only being considered.

CHICO, CAL.—Bids are asked until Sept. 6 for a franchise for furnishing light and power, the Butler County Electric Power & Lighting Co. having applied. Richard White, Cy. Clk.

HEALDSBURG, CAL.—The Stanley Electrical Co. has been awarded the contract at $33,009 for the plant.

LEHI, UTAH.—This place Aug. 12 voted $6,000 in bonds to aid a proposed plant, which will light Lehi, American Fork and Pleasant Grove. Each of the latter two towns have recently voted bonds for the same amount. The plant is to be situated in the foot hills, midway between the three towns, and will cost about $30,000.

GALT, ONT.—The question of putting in a city plant is being considered. Councilman Scott, Chn. Com.

GUADALAJARA, MEX.—Press reports state that the Mexican government has granted a concession to Manuel Cuesta Gallarde for the utilization of the waters of the Santiago River in Jalisco. The power may be used directly or may be transmitted by electricity to any point Mr. Gallarde may deem necessary. Mr. Gallarde has deposited $5,000 in the National Bank of the City of Mexico as a guarantee to carry out the provisions contained in the concession.

KOTA-RADJA, ATCHEEN, SUMATRA. — Bids are wanted for lighting the city by an incandescent system. Copies of plans are on file at the Bureau of Foreign Commerce, Department of State, Washington, D. C. Address W. H. Smit, Concessionaire, care of U. S. Consul S. B. Everett, Batavia, Java.

BRIDGES.

BELFAST, ME.—The city has appointed a committee to consider the advisability of building a new bridge.

MONTPELIER, VT.—The estate of James R. Langdon has given the Berlin Iron Bridge Co., East Berlin, Conn., the contract for a steel bridge 70 ft. long, having 26 ft. clear in the roadway, and a 6-ft. sidewalk on each side.

BRIDGEWATER, MASS.—The county commissioners have ordered a new bridge constructed at Titicut; estimated cost, $10,000.

LAWRENCE, MASS.—The city government has voted to ask for bids for the construction of a new bridge across the Spicket River at Haverhill St.

DANIELSVILLE, CONN.—The selectmen are considering the question of building a bridge over the Five-Mile River; estimated cost, $25,000.

PUTNAM, CONN.—It is stated that the selectmen recently voted for an appropriation of $16,000 for the construction of a bridge on the Mechanicsville road.

BROOKLYN, N. Y.—Bids are asked until Aug. 24 for constructing new gates for the following bridges: Hamilton Ave., Ninth St., Third St., Union St. and Carroll St. John L. Shea, Comr. Bridges, 150 Nassau St., New York.

COHOES, N. Y.—The question of constructing a viaduct over the tracks of the Delaware & Hudson R. R. at Ontario St. is being discussed by the state railroad commissioners.

MOUNT VERNON, N. Y.—It is stated that a committee of aldermen is considering the question of constructing four bridges; the following are the proposed bridges with their respective estimates: East Lincoln Ave., $4,687; East Third St., $3,188; Sixth St., $3,933; South Fulton Ave., $21,397.

SOUTHOLD, N. Y.—It is stated that the town board has decided to build a two-span iron bridge to replace the present wooden structure at Mill Creek, to cost about $2,000.

SALEM, N. J.—Bids are asked until Aug. 22 for the erection of a span of bridge to be attached to the iron bridge in this place. W. J. Freas, Chn. Pennsneck Bridge.

SOUTH RIVER, N. J.—Bids are asked until Aug. 17 for the construction of an iron bridge over South River. D. W. Dayton, Clk Bd. Chosen Freeholders.

ALLEGHENY, PA.—The Keystone Bridge Co. has been awarded the contract for the construction of the Consolidated Traction Co.'s new bridge across the Allegheny River at Sharkesburg and Lawrenceville. The bridge will have a span of 75 ft. and will also cross the tracks of the Allegheny Valley & West Pennsylvania R. R. at a height of 35 ft.

CHESTER, PA.—The question of constructing a bridge 70 ft. long and with a 20-ft. roadway, to cost about $4,-500, is being considered by the county commissioners.

NORRISTOWN, PA.—It is stated that the county commissioners have decided to construct five steel bridges in various parts of the county, as follows: Over the West Branch of the Neshaminy Creek, in Hatfield; over Skippack Creek, in Lower Salford; over Skippack Creek, in Tonamensin; over Swamp Creek, in Frederick, and over Swamp Creek, in Douglass Township.

DINGMANS FERRY, PA.—It is reported that the citizens of this town and vicinity have subscribed $7,500 for the construction of an iron bridge across the Delaware River.

PITTSBURG, PA.—The Panhandle bridge, which crosses the Monongahela River at this city, is to be remodeled and three or four of the spans of the approach on the south side are to be rebuilt.

PITTSBURG, PA.—Local reports state that Laughlin & Co. have awarded the contract for the masonry for their new bridge across the Monongahela River to the Drake & Stratton Co. Total cost of bridge is estimated at $225,000.

SCRANTON, PA.—The county commissioners on Aug. 4 awarded the contracts for the construction of two bridges to the Penn Bridge Co., one over the Spring Brook, near the mouth of Green River, and the other over La Plume Brook.

YORK, PA.—The following bids were received by the County Commissioners on Aug. 9 for the construction of a bridge across the Yellow Breeches at Gilbert's Fording: Pittsburg Bridge Co., $4,525; Wrought Iron Bridge Co., Canton, O., $4,466 (accepted).

ATLANTA, GA.—It is stated that the finance committee has recommended the appropriation of $2,500 for the construction of a new steel bridge on Whitehall St. over the tracks of the Southern Ry.

TIFTON, GA.—Reports state that the Tifton, Thomasville & Gulf Ry. is considering the building of a 900-ft. trestle over the Little River, and a 725-ft. trestle over Ty Ty Creek; a 1,100-ft. trestle over the Warrior River; a 750-ft. trestle over Ocoplico Creek, and a 1,050-ft. trestle over Ocloc knee River. Edward Wilson, Engr.

ANDALUSIA, ALA.—Bids are asked by H. B. O'Neal until Aug. 24 for the construction of a bridge over the Conech River.

AVOCA, KY.—Bids are asked until Sept. 5 for the construction of a bridge with one span of 28 ft. to cost about $600. R. H. Young, County Engr., Louisville, Ky.

BIRMINGHAM, O.—Bids are asked until Aug. 29 for the construction of a bridge 470 ft. in length over the Vermillion River. J. C. Hauser, Chn. County Comrs.

CINCINNATI, O.—Bids are asked until Sept. 2 for the following bridge work: Repairs of the north abutments and wing-wall of the Harrison Suspension Bridge over Whitewater River, near Harrison; construction of superstructure of bridge over the B. & O. S. W. R. R. at Norwood; construction of substructure of bridge over the B. & O. S. W. R. R. on Montgomery Pike in Norwood. Eugene L. Lewis, County Audr.

CLEVELAND, O.—It is stated that plans for the proposed bridge under the tracks of the Lake Shore & Michigan Southern Ry. are being prepared.

COLUMBUS, O.—The contract for raising the superstructure of the bridge over Olentangy, a mile and a half north of Worthington, has been awarded to William Lamb & Son.

TORONTO, O.—The contract for erecting the masonry for a bridge over the fork of Yellow Creek on the road from Bergholz to Salineville was let by the county commissioners Aug. 4 to James Rawlins, of Richmond, who also received the contract for rebuilding one abutment of the Aiken bridge.

TERRE HAUTE, IND.—The following bids were received Aug. 10 for the construction of the Macksville trestle: Variety Iron Works Co., Cleveland, O., $17,463; Massillon Bridge Co., Massillon, O., $16,499; King Bridge Co., Cleveland, O., $17,359; Vincennes Bridge Co., Vincennes, Ind., $17,000; Wrought Iron Bridge Co., Canton, O., $17,350; Attica Bridge Co., Attica, Ind., $17,800; Canton Bridge Co., Canton, Ind., $18,125; Wabash Bridge Co., Wabash, Ind., $17,593; Brackett Bridge Co., Cincinnati, O., $17,950; Lafayette Bridge Co., Lafayette, Ind., $17,-350; Toledo Bridge Co., Toledo, O., $17,442; New Columbus Bridge Co., Columbus, O., $17,725; New Castle Bridge Co., New Castle, Ind., $18,000; Bellefontaine Bridge & Iron Co., Bellefontaine, O., $20,649; Mt. Vernon Bridge Co., Mt. Vernon, O., $17,700; Indiana Bridge Co., Muncie, Ind., $17,300.

DETROIT, MICH.—It is stated that the plans for the new drawbridge over the Rouge at Fox St. have been received by Supervisor Higgins. The bridge will be 203 ft. in length and 50 ft. high, and will cost about $13,700.

SAGINAW, MICH.—It is proposed to issue $8,000 in bonds for placing safety gates, etc., on the Court St. bridge.

CHICAGO, ILL.—Bids are asked until Aug. 28 for the erection of the superstructure of one single and one double track railway bridge near Bureau Junction, as stated in our advertising columns. Maj. W. L. Marshall, U. S. Engrs.

CHICAGO, ILL.—It is reported that the McCormick Harvesting Machine Co. proposes to construct a bridge across the Chicago River.

MOLINE, ILL.—Local papers state that the Tri-City Ry. Co. will build a new bridge to the island from a point in West Moline or East Rock Island, to be used for street cars only.

ROCKFORD, ILL.—At a meeting of the council Aug. 1 it was decided to raise the new steel bridge over Keith's Creek at Seventh St. 2.3 ft. higher than the old structure.

HUDSON, WIS.—At a special meeting in St. Croix county Aug. 5 it was voted to build a bridge across Apple River at New Richmond, to replace the one recently destroyed.

LA CROSSE, WIS.—The contracts for the construction of three county bridges have been awarded to the C. M. Horton Bridge Co., of this place.

NEW RICHMOND, WIS.—Reports state that the city voted on Aug. 5 for the issuance of county bonds to rebuild the bridges recently destroyed.

WEST SUPERIOR, WIS.—Bids for the construction of the approaches to the 21st St. viaduct have been received. C. W. Murray & Co., at $8,469, was the lowest bid for the timber work.——It is stated that the city has asked the Northern Pacific Ry. to build the structure at Belknap St., as a continuance of the Great Northern Ry.'s viaduct, according to its contract made some years ago.

CLINTON, IA.—Local papers state that James H. Seldon, of Muscatine, has been awarded the contract for building the bridges and culverts for the entire line of the Davenport, Clinton & Eastern Ry., between Davenport & Clinton.

ALEXANDRIA, S. DAK.—Bids are asked until Sept. 5 for the construction of a bridge over Twelve-Mile Creek, in Worthern township. H. P. Benjamin, County Audr.

BOULDER, MONT.—It is reported that the contracts for the erection of two bridges have been awarded to the Gillette-Herzog Mfg. Co., Minneapolis, at $6,475.

KANSAS CITY, MO.—The plans for the Winner Bridge have been approved by the War Department at Washington; they provide for a three-deck bridge and also for two new depots, one of which will be located in the north end and the other near 19th and McGee Sts.

TEXARKANA, ARK.—W. H. Carson, Supt. Arkansas & Choctaw Ry., states that the company, which proposes to build a 300-mile road from this city, will need a large steel bridge and several smaller structures.

CALVERT, TEX.—A subscription amounting to $3,000 has been raised by the citizens of Calvert for the purpose of bridging the Brazos River.

WACO, TEX.—It is stated that the construction of a bridge across the river will be included in the proposed improvements in East Waco.

DENVER, COLO.—The board of public works has decided to proceed with the construction of the bridge over Cherry Creek at South Fourteenth St. and Eighth Ave. An appropriation of $7,500 has been made for the work.

MARSHFIELD, ORE.—The contract for rebuilding the bridge across the Coquille River has been let to the San Francisco Bridge Co. at $3,842.

McMINNVILLE, ORE.—It is stated that the commissioners have decided to build a new span for the bridge across the river at this place.

SANTA ANA, CAL.—Bids are asked by the county clerk for the construction of a bridge across the Santiago Creek on Glassell St., east of Orange.

QUEBEC, QUE.—The House of Commons has passed the million-dollar subsidy to the Quebec Bridge Co. for the construction of the Quebec bridge, which will be 3,280 ft. long and will cost about $4,000,000. The company, which has a capital of $500,000, expects to receive $500,000 from the city of Quebec, $1,000,000 from the Dominion government and a subsidy from the provincial legislature.

TORONTO, ONT.—Bids are asked until Sept. 2 for the steel superstructure to cost $1,500, and until Sept. 6 for the masonry substructure to cost $2,500, for a bridge of one span of 100 ft. and 16 ft. wide over the forks of the River Don, Todmorden. The bridge is most likely to be built before next spring. P. S. Gibson & Sons, Engrs., Willowdale, Ont.

PRESTON, ENGLAND.—Bids are asked by the main roads and bridges committee for the construction of the new Darwen bridge and the removal of the present Darwen bridge which crosses the River Darwen in Walton-le-Dale.

COPENHAGEN, DENMARK.—The government proposes to build a bridge across the Little Belt at a cost of about $4,000,000, as noted under Miscellaneous Contracts.

TOKIO, JAPAN.—The contract which involves nearly $750,000 for bridge building has been awarded to the Pencoyd Iron Works of Philadelphia, Pa., by the Imperial Government of Japan.

BUILDINGS.

ROCHESTER, N. H.—The school board has voted to ask the council for an appropriation of $30,000 for the erection of a new school building.

NORTH ADAMS, MASS.—The council has voted an appropriation of $55,000 for the purchase of land and the erection of a school building in ward No. 3.

ROCKPORT, MASS.—Bids are asked by the life-saving service, Washington, D. C., until Aug. 21, for constructing a life-saving station at Gap Cove, opposite Straitsmouth Island, Rockport. S. J. Kimball, Gen. Supt.

TORRINGTON, CONN.—H. Wales Lines & Co., 134 State St., Meriden, Conn., are reported to have been awarded the contract for erecting a new public library building, 74x41 ft., at Litchfield St. and Daycoeton Place, to cost about $60,000. The carpentry work has been sublet to Hotchkiss Bros & Co., Torrington. Stephenson & Greene, Archs., 119 Nassau St., New York.

BROOKLYN, N. Y.—The following bids were received by the department of yards and docks, Washington, D. C., Aug. 14, for the erection of shops for steam engineering, to replace the building destroyed by fire Feb. 15 at the navy yard: Augustus Smith, of New York, $520,174; the United Co., of New York, $523,300, and Post & McCord, Brooklyn, $519,326. All the bids have been rejected as the appropriation was only $325,000.

BUFFALO, N. Y.—Bids are asked until Aug. 23 for erecting a 16-room school building on the Terrace, near Genesee St. R. S. Parsons, Secy. Bd. Pub. Wks.——Additions to the buildings of the Holy Angels' Academy on Porter Ave. are contemplated, which will cost about $50,-000.——The following bids were received by the supervising architect, Washington, D. C., Aug. 3, for the low-pressure and exhaust steam heating and mechanical ventilating apparatus, etc., for the post office building at Buffalo; Edward Joy, Syracuse, N. Y., $98,500, *180 days; John W. Danforth Co., Buffalo, $110,700, *150 days; Gaylord & Eltapenc, Binghampton, N. Y., $92,672, *180 days; Chafer & Becker, Cleveland, O., $97,419, *180 days; Howe & Bassett, Rochester, N. Y., $106,000, *180 days; Borger Bros. & Co., Columbus, O., $101,315, *180 days; Edward P. Bates, Syracuse, $116,425, *180 days; Timothy McEvoy, Buffalo, $98,142, 150 days; Charles B Kruse Heating Co., Milwaukee, Wis., $84,500, *180 days; Iribacker & Sons, Buffalo, $105,239, *180 days; Frank Dobson, New York, $93,000, 200 days; Blake & Williams, New York, $88,820, *100 days. Those marked * are working days.

DANNEMORA, N. Y.—Bids are asked until Aug. 21 for installing the plumbing and drainage works; electric wiring and fixtures; engines, generators, switch-board and mains; and warming and ventilating systems, for a hospital for insane criminals at Dannemora. C. V. Collins, Supt. of State Prisons; G. L. Heins, State Arch., Albany, N Y.

ELLIS ISLAND, N. Y. H.—L. L. Leach & Son, Chicago, Ill., were the lowest bidder Aug. 14 for the construction (except heating and ventilating apparatus and electric work) of a hospital for the U. S. Immigrant Station on Ellis Island, New York Harbor, at $177,579.

HAMILTON, N. Y.—It has been voted to erect a new high school building at this place, to cost $23,000.

NEW YORK, N. Y.—Bids are asked by the department of correction, 148 East 20th St., until Aug. 24, for balconies and fire-escapes for the dining-room building, penitentiary, Blackwell's Island; two bonds, $1,000 each.——Plans have been filed by Joseph F. Doyle, 795 St. Nicholas Ave., for three 5-story brick flat and store buildings on 11th St., near Greenwich St., to cost $51,000. Neville &

Baggs, Archs., 217 West 125th St.; by William Crawford, for an 8-story brick and stone store building at 19th and 20th Sts. and 6th Ave., to cost $1,800,000. W. H. Hume & Son, Archs., 1 Union Square; by Henry G. Gabbay, 892 3d Ave., for a 7-story brick flat and store building at Broadway and 109th St., to cost $185,000. Henry Anderson, Arch., 1180 Broadway; by Wilber M. Gaige, 129 West 125th St., for a 6-story brick flat building on 69th St., near Amsterdam Ave., to cost $60,000. Geo. J. Ebert, Arch.; by Hilde B. Reeves, for ten 2-story brick and stone dwellings on Eagle Ave., near 156th St., to cost $50,000. H. Alban Reeves, Arch., 13 Park Row; by Benedict A. Klein, 125 East 120th St., for two 6-story brick flat and store buildings on 9th Ave., near 38th St., to cost $56,000. G. F. Pelham, Arch., 503 5th Ave.

NEW YORK, N. Y.—Bids are asked by the Warren-Scharf Asphalt Paving Co., 81 Fulton St., New York, for furnishing and erecting about 200,000 lbs. of structural steel, delivery by Oct. 1, as stated in our advertising columns.

NEW YORK, N. Y.—Bids are asked by the fire department, 157 East 67th St., until Sept. 1, for altering and repairing the department building at 340 East 14th St.

ROME, N. Y.—Bids are asked until Aug. 19 for erecting a ward building at the Rome State Custodial Asylum. Wm. H. Cloher, Jr., Pres. Bd. of Mgrs., Rome.

ROME, N. Y.—Breen Bros., Utica, N. Y., have been awarded the contract for the steam heating and ventilating of the administration and ward buildings at the Rome State Custodial Asylum, at $14,858. The Utica Electric Light & Power Co. has been awarded the contract for electric wiring and fixtures, at $4,300.

SYRACUSE, N. Y.—Plans have been prepared for a 4-story brick and stone dormitory building, 56 × 68 ft., for Syracuse University, to cost $25,000. Goggin & Goggin, Archs., University Bldg.

GLEN RIDGE, N. J.—Bids are asked by the board of education until Aug. 22 for the purchase of $80,000 of school bonds. Wm. Ford Upson, District Clk.

PENNINGTON, N. J.—Plans have been prepared, according to reports, for a 2½-story stone and brick school building, 45 × 65 ft., to cost about $15,000. Wm. A. Poland, Arch., 11 West State St., Trenton, N. J.

TRENTON, N. J.—Bids are asked until Aug. 17 for erecting two dormitories on the grounds of the State Hospital at Trenton. G. D. W. Vroom, Pres. Bd. of Mgrs.; H. E. Finch, Arch., 144 East State St.

BELLEVUE, PA.—Plans are reported to have been prepared for a 100-room hotel building to be erected at Bellevue for M. P. Howley, to cost $75,000. J. P. Bailey, Arch., 331 6th Ave., Pittsburg, Pa.

ERIE, PA.—Bids are asked until Sept. 1 for extensions and improvements to the infirmary building of the Pennsylvania Soldiers' and Sailors' Home at Erie. Louis Wagner, Chn. Com.; T. P. Lonsdale, Arch., Manhattan Bldg., Philadelphia, Pa.

PHILADELPHIA, PA.—Bids are asked by the bureau of yards and docks, Washington, D. C., until Sept. 2, for constructing a work shop and boiler house for ordnance at the navy yard, League Island, Philadelphia.——Bids are being received by Stacy, Reeves & Sons, 1611 Filbert St., according to reports, for material for the new 4-story dormitory building to be erected by them at Spruce and 36th Sts. for the University of Pennsylvania; estimated cost, about $200,000. Cope & Stewardson, Archs.——Estimates are being received by Wm. F. Ingham, 846 North 16th St., for erecting a 4-story hospital building, 44 × 43 ft., for the Medico-Chirugical Hospital at 18th and Cherry Sts. Herman Miller, Arch.——Jacob Myers & Sons are taking estimates for erecting a 2-story brick parish building for the Mission of St. John the Divine at 25th St. and Lehigh Ave. George Nattress & Son, Archs.

BALTIMORE, MD.—The Northern Central R. R. Co. has secured permits to build a 4-story bonded warehouse at Bond and Thames St, 100 × 300 ft., of brick and iron, and to cost $250,000, Roydhouse, Arey & Co., Philadelphia, contractors; and a 2-story iron building, 69 × 358 ft., at Monument and Constitution Sts., to cost $100,000, the Structural Iron Co., Baltimore, Md., contractors.——The George A. Fuller Co., Chicago, Ill., and Baltimore, has been awarded the contract for erecting an office building at Fayette and St. Paul Sts. for the Calvert Construction Co.; estimated cost, $700,000. J. E. Sperry, Arch., Baltimore.

LEXINGTON, VA.—Plans have been prepared for the proposed Smith memorial building, 196 × 75 ft., to be erected here for the Virginia Military Institute, to cost about $20,000. W. G. McDowell, Arch.

ROANOKE, VA.—Plans are asked until Dec. 1 for a brick and stone Catholic church building. Address J. J. Garry, Roanoke.

CHARLESTON, W. VA.—Bids are asked until Sept. 14 for erecting the state capitol annex in this city. Wm. M. O. Dawson, Secy. Bd. Pub. Wks.; Harrison Albright, Arch., Charleston.

PARKERSBURG, W. VA.—The 4-story building of the W. H. Smith Hardware Co., and other buildings, were destroyed by fire Aug. 11; reported loss, $150,000.

MOBILE, ALA.—We are informed that the following bids were received Aug. 10 for erecting an assistant keeper's dwelling at Edgmont Key Light Station, Fla., as advertised in Engineering News; Lieut.-Col. A. N. Damrell, U. S. Engrs.: Chas. W. Kaiser, New Orleans, La., $5,000; Peter Eskald, Biloxi, Miss., $2,979; Abner Powell, Tampa, Fla., $3,940; J. H. Gardner, New Orleans, La., $4,667; Edenfield & Jetton, Tampa, Fla., $3,850.

NEW ORLEANS, LA.—Bids are asked until Aug. 28 for erecting school buildings at North Rampart St. and Jordan Ave., and on Enato St., near Baronne Ave. W. S. Douglass, Comptroller.

CLARKSVILLE, TENN.—M. T. Lewman & Co., Louisville, Ky., have been awarded the contract for erecting a 4-story brick and stone warehouse building, 210 × 137 ft., for the Atlantic Snuff Co., to cost about $40,000.

COOKEVILLE, TENN.—Scott & Smoot, Cookeville, have been awarded the contract for erecting the new brick and stone court house for Putnam county, to cost $20,000.

KNOXVILLE, TENN.—Bids will soon be asked, according to reports, for the erection of a new passenger station at Knoxville for the Southern Ry., to cost about $50,000. Frank H. Milburn, Arch., Charlotte, N. C.

CLEVELAND, O.—The following bids were received by the supervising architect, Washington, D. C., Aug. 10, for a new steam heating apparatus for the marine hospital building in this city: Ohio Heating & Mfg. Co., Cleveland, $10,600; Pittsburg Heating Supply Co., Pittsburg, Pa., $7,990; William A. Pope, Chicago, Ill., $8,947; D. Connelly, Cleveland, $8,460; Gaylord & Eltapence, Binghampton, N. Y., $7,993; Chafer & Becker, Cleveland, $7,935.

LIMA, O.—H. Karg, Toledo, O., has been awarded the contract for erecting a 16-room school building in this city, at $40,263. Leech & Leech, Archs., Badeau Block.

TOLEDO, O.—Bids are asked by the commissioners of Lucas county until Sept. 7 for constructing a steam heating and ventilating system in the county jail and sheriff's residence. Wm. O. Godfrey, County Audr.; D. L. Stine, Arch.

INDIANAPOLIS, IND.—Bids are asked by the commissioners of Marion county until Sept. 2 for furnishing boilers, engines, electric wiring, generators, steam heating apparatus, plumbing, laundry machinery and water supply for the new building to be used for the care of the incurably insane of Marion county.

JULIETTA, IND.—It is reported that the contract for erecting the new asylum for the insane of Marion county has been awarded to George Weaver, for brick work, $35,450; Ferd. C. Smock, 427 Lemcke Bldg., for carpenter work, $31,500.

DETROIT, MICH.—Bids are asked until Aug. 17 for erecting a new police station at Trumbull and Michigan Aves. D. S. Donahue, Secy. Police Comrs.; Joy & Barcraft, Archs., Ferguson Bldg.

FLINT, MICH.—Plans are about prepared for a 50-room school building, 216 × 88 ft., for the Michigan School for the Deaf, to cost about $80,000. F. W. Hollister, Arch., Saginaw, Mich.

JACKSON, MICH.—Howard & Solon are said to contemplate the erection of a $50,000 building for their use on Liberty St.

CHICAGO, ILL.—Plans have been prepared for the North Side Business Men's Association for a proposed coliseum building, 1,200 × 350 ft., to cost about $350,000. Chas. F. Gillman, Pres.——Plans have been prepared for an asylum building to be erected for the Holy Family Orphan Asylum for Polish Children at Hamlin and Evergreen Aves., Avondale; reported cost, $60,000. A. Druiding & Co., Archs., Metropolitan Block.——Contracts will soon be let, according to reports, for erecting three apartment buildings on Calumet Ave., near 51st St., to cost about $42,000. Morrison H. Vail, Arch., 940 Unity Bldg.——Reports state that R. A. Greifenhagen will erect an 8-story apartment building at 2613 Michigan Ave., to cost about $100,000. Geo. S. Kingsley, Arch.

PAXTON, ILL.—J. P. Middlecoff, Mayor, informs us that bids are now being received for the erection of a new city hall building, 30 × 60 ft., to cost $4,000. Paul O. Moratz, Arch., Bloomington, Ill.

CHIPPEWA FALLS, WIS.—Plans are being prepared, according to reports, for a new station to be erected for the Wisconsin Central Ry. in this city. J. J. Callaghan, Supt. of Bldgs., Stevens Point, Wis.

HURLEY, WIS.—Bids are asked until Aug. 29 for erecting a school building. Geo. C. Foster, Clk. School Bd.; F. D. Orff, Arch., Minneapolis, Minn.

OSHKOSH, WIS.—Louis Webber, Neenah, Wis., has been awarded the contract for erecting the new jail and sheriff's residence, at $12,000. The Champion Iron Co. will do some of the work.

GRACEVILLE, MINN.—Bids are being received by the Farmers' Elevator Association for the erection at this place of an elevator with a capacity of between 30,000 and 40,000 bushels. Address E. V. Green, Secy. Com.

MINNEAPOLIS, MINN.—The Barnett & Record Co., Corn Exchange, is reported to have been awarded the contract for erecting a grain elevator for the George C. Bagley Elevator Co. at 11th Ave. S. and 29th St., to cost about $45,000.

MINNEAPOLIS, MINN.—Bids are asked by the court house and city hall commissioners until Aug. 24 for fireproofing, steam heating, plumbing and gas fitting. Long & Kees, Archs., 605 Kasota Block.

SAN ANTONIO, TEX.—L. P. Boettler has been awarded the contract for erecting a market house and convention hall on Paschal Square, to cost about $30,000. Alfred Giles, Arch.

HUMBOLDT, S. DAK.—Bids are asked until Sept. 4 for erecting a school building in Humboldt township. Address Patrick O'Dea.

EATON, COLO.—Bids are asked until Aug. 19 for constructing a school building at Eaton. Mary I. Grant, Secy.; Thomas & Thomas, Archs., McPhee Bldg., Denver, Colo.

SEATTLE, WASH.—Plans and specifications are asked until Aug. 30 for a brick and stone fireproof high school building. Lyman Banks, Secy. School District No. 1.

SALINAS, CAL.—E. Matheson has been awarded the contract for erecting a new high school building at this place, at $24,880. L. S. Stone, Arch.

SAN ANDREAS, CAL.—Bids are asked by the trustees of the Angels school district until Aug. 22 for constructing a new school building.

PHOENIX, ARIZ.—Bids are asked by the office of Indian affairs until Sept. 5 for erecting a brick manual training building at the Phoenix Indian Industrial School. S. M. McCowan, Supt., Phoenix.

BLACKPOOL, ENGLAND.—Plans are being considered by this city for a large hotel building, to cost about £100,000 ($500,000). Clegg & Sons, Archs., Manchester, England.

WATER-WORKS.

PEAKS ISLAND, ME.—Ex-Alderman Rounds, of Portland, Me., is reported as interested in the proposed works for Peaks Island.

NOBSCOT, MASS.—It is stated that surveys for works are being made.

PASCOAG, R. I.—Efforts are being made to put in immediately works for this place and Harrisville, R. I., by the Pascoag Light & Water Co. About 7½ miles of mains and 80 hydrants will be put in.

CLINTON, CONN.—The Guilford Water Co., Guilford, Conn., proposes to build two reservoirs to furnish water to Madison and Clinton.

CANANDAIGUA, N. Y.—M. Dwight Munger is said to have applied for a franchise for works and an electric plant. Address Village Trustees Warfield, Hutchens and Andruss.

LANSINGBURG, N. Y.—Bids are asked by the water commissioners until Aug. 31 for constructing a storage reservoir and masonry dam and laying about 25,000 ft. of 12-in. iron pipe, as stated in our advertising columns. C. E. Hicks, Cy. Engr.

MORRIS PLAINS, N. J.—The Morris Plains Aqueduct & Water Co. has been incorporated by Geo. W. Howell, Morristown, N. J.; Richard A. McCurdy, Morris Plains.

VINELAND, N. J.—An election will soon be held to vote on the question of issuing $140,000 in bonds, part of which is for works and a sewerage system. Address J. A. Ackley and W. E. Allen.

BURNHAM, PA.—A syndicate, with the necessary capital to push the operation, has purchased 50 acres of high land at Burnham on which it is proposed to build houses for workingmen, and A. A. Stevenson, who is trustee for the syndicate, is receiving bids for the water supply and the sewerage system. The works of the Standard Steel Works and the rolling mills of the Logan Iron & Steel Co. are located at this place, they employing together some twelve hundred men.

PHILADELPHIA, PA.—We are informed that the department of public works received the following bids Aug. 9, 1899, for furnishing pumps, boilers, etc., for various pumping stations: Pumps.—(1) being for two 5,000,000-gallon engines for the Roxborough station, Shawmont, static head, 400 ft.; (2) for two 3,000,000-gallon engines for the Frankfort high-service station, 200 ft. head; (3) for one 5,000,000-gallon engine for Roxborough and one 5,000,000-gallon engine for the Belmont high-service stations: Barr Pumping Engine Co., Germantown Junction, Philadelphia, (1) vertical triple, $43,200 each; vertical compound, $33,750 each; horizontal compound, $29,700 each; (2) vertical, $20,400 each; horizontal, $16,800 and $15,000 each; (3) Roxborough and Belmont, vertical, $30,000 each; horizontal, $27,000 each. Holly Mfg. Co., Lockport, N. Y., (1) vertical, $55,173; horizontal, $34,615; (2) horizontal, $17,276. Henry R. Worthington, Liberty St., New York, (1) horizontal, $30,000; (2) horizontal, $18,750; (3) vertical, 24-in., $21,250 each; horizontal, 36-in., $22,250 each; d'Auria Pumping Engine Co., Drexel Bldg., Philadelphia, (1) horizontal, $17,500 each. Boilers.—(1) being for three boilers at Frankford high-service station; (2) for two at the Roxborough station: Robt. Wetherill & Co., Chester, Pa., (1) $4,360 each; (2) $4,250 each. I. P. Morris & Co., Beach and Ball Sts., Philadelphia, (1) $4,975; (2) $4,775. Pump chambers and valves.—Henry R. Worthington: Roxborough station, $2,300. Southward Foundry & Machine Co., 5th and Washington Sts., Philadelphia: Queen Lane station, $1,525. Erecting engine and boiler houses: all local bidders.—Macey, Henderson & Co., 1215 Filbert St.: Roxborough high-service station, $89,929; Frankford high-service station, $18,839; H. B. Shoemaker & Co., 113 North 7th St.; Frankford, $20,000. Henry Kuemmer Co., Betz Bldg.: Frankford station, $16,699. Two other bids were rejected. One was the bid of the P. H. & F. M. Roots Co., to erect a 5,000,000-gallon pump for the Roxborough high-service station at $17,100. This was the lowest price offered. The signature was typewritten. The other rejected bid was that of R. O. Kinney & Co., for three boilers for the Frankford high-service station. The bids for the water mains are given under Contract Prices.

LOCK HAVEN, PA.—The council is reported to have purchased a water shed, and it is proposed to secure an increased water supply at once.

McKEESPORT, PA.—It is proposed to increase the water supply from the wells. J. M. Kinkaid, Ch. Engr., and Superintendent Verner, may be addressed.

RENOVO, PA.—Bids are asked until Aug. 29 for furnishing pipe, valves, hydrants, etc., as stated in our advertising columns. W. J. Straley, Secy. Comn.

TAKOMA PARK, D. C.—H. A. Pressey, Geological Survey, Washington, D. C., is preparing plans for works and a sewerage system to cost $40,000. There will be a reservoir, stand-pipe, pumps (possibly gas or gasoline), mains, etc. The water supply will be from Seigo Creek. S. S. Shedd, Mayor.

CRISFIELD, MD.—Bids are asked until Aug. 31 for constructing works, as stated in our advertising columns. E. M. Kenly, Engr., 320 E. Lanvole St., Baltimore, Md.; J. E. Sterling, Secy.

GASTONIA, N. C.—An election was held Aug. 15 to vote on the question of issuing $50,000 in bonds for works and a sewerage system. W. H. Lewis, Mayor.

ELBERTON, GA.—The election called for Aug. 10 to vote on the question of issuing $25,000 in bonds for works has been postponed until Sept. 2. Alber & Byrne, Engrs., 1821 Second Ave., Birmingham, Ala. Address F. W. Auld or W. B. Henry, Cy. Clk.

SARDIS, MISS.—Bids are asked until Sept. 5 for constructing works and for the purchase of $12,000 of 20-year 5% bonds for the improvements. Alber & Byrne, Engrs., Birmingham, Ala.; C. W. Duval, Clk.

NATCHITOCHES, LA.—Geo. Cadogan Morgan, Royal Insurance Bldg., Chicago, Ill., is reported to have been engaged to prepare plans for works and an electric plant to cost $25,000.

GALLATIN, TENN.—Another election will soon be held to vote on the question of issuing $40,000 in bonds for the proposed works. W. G. Kirkpatrick, Engr., Jackson, Miss.; E. O. Buchanan, Secy.

BEREA, O.—E. S. Loomis, Clk., writes us that the city is now seeking a water supply, and until a sufficient supply is found nothing will be done towards buying the materials. Population, 3,000. L. E. Chapin, Engr., Canton, O.; Dr. D. J. Gould, Chn. Com.

DELPHOS, O.—Bids are asked until Aug. 22 for an air lift, including a compressor and well apparatus, to elevate 300,000 gallons every 10 hours. E. S. Peters, Clk. and Supt. Wks.

NEW CUMBERLAND, O.—The question of securing a better water supply is being considered.

LORAIN, O.—Bids are asked until Aug. 23 for laying 5,000 ft. of 6-in. water pipe for the Sheffield Land Improvement Co.

NORWOOD, O.—B. L. Baldwin, Perrin Bldg., Cincinnati, O., has submitted estimates for improving the works to cost $14,250.

TOLEDO, O.—Bids are asked until Aug. 28 for sinking four artesian wells. W. O. Holst, Cy. Clk.

LA PORTE, IND.—The La Porte Supply Co. has been incorporated with a capital stock of $75,000 by Geo. M. Allen and W. H. Wheeler, Beloit, Wis., and E. R. Wheeler, Chicago, Ill., to put in the proposed new works.

ANN ARBOR, MICH.—The question of the municipal ownership of the works is being considered. We are informed that nothing much is likely to be done at present. Address Alderman Hamilton.

GROSSE POINTE, MICH.—The city of Detroit has been petitioned to extend its Jefferson Ave. main as far as the village; estimated cost, $12,000. R. P. Connor, Clk.

LUDINGTON, MICH.—An election will be held Aug. 30 to vote on the question of issuing $110,444 in bonds for purchasing the works.

OCONOMOWOC, WIS.—O. C. Peters, Cy. Clk., writes us that the following bids were received last week for an 80-ft. tower and a 40-ft. tank for the works: John O. Johns, Racine, Wis., $9,788; Chicago Bridge & Iron Co., Chicago, $8,280, and $5,600 for an all-steel tower and about a 30-ft. tank; latter bid accepted. The bids for the mains are given under Contract Prices.

BLOOMFIELD, IA.—An election will be held Aug. 25 to vote on the question of issuing $8,500 in bonds for a new artesian well water supply, according to reports.

BURLINGTON, IA.—The council has voted to purchase the works of the Burlington Water Co. and will take possession in one year. Address J. A. Kleppisch and C. L. Poor.

OTTUMWA, IA.—The council is considering an ordinance authorizing the purchase of the works of the City Water Supply Co., whose franchise expires in 1902.

OSKALOOSA, IA.—W. H. Wray, Mayor, writes us that the franchise of the Oskaloosa Water Co. will expire Nov. 10, and the question of a new one is being considered. G. L. McKibben, Engr., Van Wert, O.; D. C. Waggoner, Cy. Clk.

ADA, MINN.—F. M. Calkins, Recdr., writes us that the people seem to be in favor of building works. It is proposed to lay half a mile of mains this year and to complete the work next year, thus avoiding the necessity of issuing bonds. Population, 1,200.

PARSONS, KAN.—An election will be held Aug. 29 to vote on the question of issuing $185,000 of 5% 20-year bonds for the purchase of the works of the Parsons Water Supply & Power Co.

LINCOLN, NEB.—G. H. Ellsworth, Supt. Construction, writes us that the following bids were received Aug. 7 for a water tower at the University of Nebraska: Gillette-

Herzog Mfg. Co., Minneapolis, Minn., $4,970; Chicago Bridge & Iron Co., Chicago, Ill., design 1, $5,200; design 2, $6,500. The bids were rejected and a temporary wooden structure ordered, to serve until prices of iron and steel are more favorable.

GRAND FORKS, N. DAK.—The council has let the contract for the new pump for the works to the Holly Mfg. Co., Lockport, N. Y., at $13,700, with foundation. Henry R. Worthington, New York, bid $9,215, without foundation. This matter has been under discussion by the council for about a year.

ROSEDALE, MO.—It is proposed to construct works, the water supply to be secured from the Kansas City works. N. E. Smith, Mayor; D. J. Levengood, Chn. Com.

RICHMOND, MO.—Bids are asked until Sept. 1 for furnishing the material and for constructing a plant for the removal of iron from a ground water supply. The daily consumption is about 50,000(?) gallons. The plant was built in 1897. The supply is from driven wells, pumping to reservoir and stand-pipe. Wynkoop Kiersted, Engr., Water-Works Bldg., Kansas City, Mo.; W. T. Shoop, Mayor; Louie Child, Cy. Clk.

ST. CHARLES, MO.—Owing to the unsatisfactory service of the St. Charles Water & Heating Co. the council has employed Hiram Phillips, Lincoln Trust Bldg., St. Louis, Mo., to prepare plans and specifications for municipal works, using the Missouri River as a source of supply.

ST. LOUIS, MO.—Bids are asked until Aug. 28 for furnishing a 5-ft. × 5-ft. gate and floating boom, etc., at the inlet tower, Chain of Rocks. Edward Flad, Water Comr.

NEWKIRK, OKLA.—J. A. Hill, Cy. Clk., writes us that the city is not yet prepared to let contracts for the proposed works. Population, 2,000.

NEVADAVILLE, COLO.—A. C. Bourk, Mayor, writes us that the town has engaged Hiram Phillips, Lincoln Trust Bldg., St. Louis, to make surveys for gravity works, for which the town recently voted to issue $20,000 in bonds. Post-office, Bald Mountain.

BLACK HAWK, COLO.—Jas. A. Tierney has been awarded the contract for building a reservoir at $7,000.

GRAND JUNCTION, COLO.—The following bids were received Aug. 8 for constructing works, the water supply to be secured from the Gunnison River and carried to a reservoir: Patterson & Rony, $107,432; Holmes & Allen, $88,122; Geddes & Seares, $88,993; Lumsden & Co., $99,833; W. C. Bradbury, $71,000. The reservoir planned will give 225 ft. pressure on Main St. There will be 12 miles of pipe. Surveys are being made for a mountain supply from the Rapid Creek Springs, 20 miles distant. Hiram Phillips, Engr., St. Louis, Mo.

DAVENPORT, WASH.—Bids are asked until Aug. 30 for furnishing the materials and for constructing works to cost about $14,500. W. J. Roberts, Engr., Pullman, Wash.; Adam Knox, Mayor.

HEALDSBURG, CAL.—Jas. Stanley is reported to have been awarded the contract for building works at $32,096.

OAKLAND, CAL.—B. C. Cuvellier, Chn. Com., writes us that the committee has submitted its report on the proposed municipal works. It is not likely that the contract will be let for some time. When the time does come it will be let by the board of public works.

SACRAMENTO, CAL.—We are informed that the mayor and trustees of Sacramento have appointed a committee of citizens to investigate and report upon a water supply system for that city. L. Altozer, Chn. of Com., is now at the Hotel Rivers, 42d St., New York, where he will remain for a few more days looking up data and conferring with engineers for information to be used by the above committee.

SAN LUIS OBISPO, CAL.—An election will be held Sept. 12 to vote on the question of issuing bonds for works and a sewerage system; estimated cost of works, $90,000.

OTTAWA, ONT.—Holbrook & Sutherland have been awarded the contract, at $27,707, for the addition to the pump house. The only other bid was submitted by G. A. Cramer, at $19,980, without iron work, which will cost about $8,000. The addition will accommodate two sets of pumps with a capacity of 16,000,000 gallons. Only one of the new pumps will be installed at present. E. L. Horwood, Arch.

WARRINGTON, ENGLAND.—Parliament has passed the bill authorizing this place to issue about $735,000 for works. J. E. Wright, Mayor; T. Louglin, Surv.

WESTBURY, ENGLAND.—Bids are asked until Aug. 30 for furnishing 3 to 7-in. cast-iron water pipe, castings, etc., and for constructing a service reservoir, pumping station, well, and for laying water pipe, etc. Address W. H. Stanley, Engr., Trowbridge, Eng., for specifications, for which a deposit of one guinea is required. Jno. Calloway, Clk. Council.

SEWERAGE.

MILFORD, MASS.—The committee has decided to recommend the installation of a tank system for sewage disposal; estimated cost, $3,000.

SPRINGFIELD, MASS.—Bids are asked until Aug. 24 for constructing about 4,760 ft. of 63 to 32-in. brick sewers in three streets. W. L. Dickinson, Supt. Sts. and Sewers; C. M. Slocum, Cy. Engr.

WAKEFIELD, MASS.—The state board of health has approved plans for a sewerage filtration plant. Dr. J. W. Heath, Chn. Local Bd. Health.

PAWTUCKET, R. I.—The committee has appropriated about $15,000 for sewers.

COHOES, N. Y.—Houlihan & Larkin will begin work at once on the second section of the system, at $23,351.

DEPEW, N. Y.—This place is reported to have voted against the purchase of ground for a sewage disposal plant.

MOUNT VERNON, N. Y.—Bids are asked until Sept. 5 for waterproofing sewage receiving basins, as stated in our advertising columns. (Postponement from Aug. 15). W. M. Hoyt, Cy. Clk.; E. W. Fiske, Mayor.

PASSAIC, N. J.—Bids are asked until Aug. 18 for pipe sewers in two streets. Matthew Green, Chn. Com.

VINELAND, N. J.—An election will soon be held to vote on the question of issuing $45,000 in bonds for a system. Address D. W. Sigafoo and J. A. Ackley.

BURNHAM, PA.—Bids are wanted by Frank G. Kennedy, Sr., and A. A. Stevenson, for putting in a system.

WILKESBARRE, PA.—Bids are asked until Aug. 24 for the purchase of $60,000 of sewer bonds and $30,000 of paving bonds. Geo. Smith, Chn. Com.

TAKOMA PARK, D. C.—We are informed that H. A. Pressey, Geological Survey, Washington, D. C., is preparing plans for a system and water-works, to cost $40,000. There will be disposal works. S. S. Shedd, Mayor.

HARRISBURG, VA.—A. H. Snyder, Recdr., writes us that plans for a system have not yet been adopted.

GASTONIA, N. C.—An election was held Aug. 15 to vote on the question of issuing $50,000 in bonds for a system and water-works. W. H. Lewis, Mayor.

NEWNAN, GA.—This place voted Aug. 5 to issue $20,000 of 5% bonds for a system. A. R. Burdett, Mayor.

PENSACOLA, FLA.—It is proposed to call an election to vote on the question of issuing $50,000 in bonds for a system.

VICKSBURG, CAL.—The question of building a system is being considered by the council.

LAKEWOOD, O.—A new commission will soon be appointed to devise plans for a system. O. C. Bechtold, Mayor.

TOLEDO, O.—Bids are asked until Aug. 28 for constructing pipe sewers in a number of streets. W. O. Holst, Cy. Clk.

WELLSVILLE, O.—Bids are asked by the city clerk for sewers in certain streets.

GALESBURG, ILL.—M. J. Blanding, Cy. Engr., has submitted estimates for a sewer in Cedar Forks; estimated cost, $275,000. The sewer would be 15 ft. wide and about 7 ft. high, enclosing Cedar Fork.

MORRIS, ILL.—Alvord & Shields, 127 Hartford Bldg., Chicago, have been engaged to prepare plans for a system, according to local papers.

INDEPENDENCE, IA.—The council has engaged Alvord & Shields, 127 Hartford Bldg., Chicago, to design a system. Population, about 5,000.

OSHKOSH, WIS.—Bids are asked until Sept. 5 for a sewer in Cleveland St. Frank Monahan, Chn. Bd. Wks.

LAKE CITY, MINN.—J. D. Barton, Recdr., writes us that the following bids were received Aug. 1 for constructing a system: Webster & Blake, Dubuque, Ia., $1,647, city to furnish steam pipe and they to furnish iron pipe (accepted); Anderson & Johnson, St. Paul, $2,737, city to furnish sewer and iron pipe; John E. O'Brien, St. Paul, $2,296, city to furnish sewer and iron pipe.

ST. CLOUD, MINN.—The contract for a system for this place has been let to Webster & Blake, Dubuque, Ia., at $18,050.

INDEPENDENCE, MO.—H. H. Pendleton, Cy. Engr., writes us that the following bids were received Aug. 8 for septic tanks and filter-beds; all local bidders; (1) being for the tank in the Rock Creek district and (2) for the Mill Creek district: W. M. Randall, (1) $12,076; (2) $11,945 (accepted); Matt & Roberts, (1) $12,150; (2) $12,110; Black, Laird & Shaw, (1) $12,225; (2) $11,995; Chris Yetter, (1) $12,490; (2) $12,319.

FLORENCE, COLO.—Hiram Philips, Lincoln Trust Bldg., St. Louis, is preparing plans for a system.

SEATTLE, WASH.—Bids are asked until Aug. 19 for sewers in two streets. Frank Oleson, Secy. Bd. Pub. Wks.

BAKER, ORE.—W. H. Bentley, Audr. and Clk., writes us that a committee of three was appointed July 18 to investigate the question of a system.

RED BLUFF, CAL.—The contract for sewers has been let to the Pacific Construction Co., who will take the $35,000 of 5% bonds in payment.

SAN LUIS OBISPO, CAL.—An election will be held Sept. 12 to vote on the question of issuing bonds for a system and water-works.

WATSONVILLE, CAL.—Geary & Heafey, Oakland, Cal., have been awarded the contract, at $10,300, for constructing the system, that for the pipe having been let to N. Clark & Son, San Francisco, at $17,058.

SALT LAKE CITY, UTAH.—Bids are asked until Aug. 24 for sewers in two streets. F. C. Kelsey, Chn. Bd.

BRISTOL, ENGLAND.—Bids are asked until Aug. 28 for building three precipitating tanks in concrete, brick and pipe sewers, etc., for the parish of Westbury-upon-Trym. A. P. E. I. Cotterell, Engr., Lonsdale Chambers, 7 Baldwin St., Bristol; H. T. H. Lancaster, Clk. Council.

GARBAGE DISPOSAL—STREET CLEANING

MANCHESTER, N. H.—The question of purchasing a crematory is still under discussion, and Mayor Clarke is securing information on various methods, etc.

NEW HAVEN, CONN.—Forbes & Mortell have submitted the lowest bid for sprinkling the city's portion of the streets with car tracks at $2,753, the time to be between Aug. 15 and Nov. 20. The other bids were as follows: New Haven Street Sprinkling Co., $3,580; J. A. Doolittle & Co., $3,272. It is thought that six carts will be required, allowing 19 miles of street to a cart with two sprinklings a day.

BINGHAMTON, N. Y.—Jerome De Witt, Mayor, has refused to approve the contract for a crematory made by council with the Thackeray Incinerating & Fertilizing Co.

ATLANTIC CITY, N. J.—A fire on Aug. 8 nearly destroyed the crematory, which cost the city $27,000. The loss is about $12,000. Councilmen Beyer and Fleming are on the committee.

HAGERSTOWN, MD.—Calvin B. Thurston has submitted a proposition for a 5-year contract for removing the garbage. Address Mayor Schindel.

KEWANEE, ILL.—The council will be asked by Health Commissioner Carey to appropriate money for a crematory.

SYDNEY, NEW SOUTH WALES.—Bids are asked until Nov. 3 for the (a) erection of a refuse destructor; (b) the erection and maintenance of a destructor, and the working of same for seven years, at a price per ton weight of refuse received and treated; (c) the erection and maintenance of a destructor, and the collection and destruction of garbage, for seven years, at a price per ton weight of refuse treated. It is probable that four distinct plants may be required. Bidders will therefore quote prices for 1, 2, 3 and 4 destructors, under each respective heading, A, B, C, and must submit a fully detailed specification of the destructors offered. The average number of loads of refuse per day now collected is 250. Level sites and foundation walls (if necessary) will be provided. Destructors must be guaranteed for a period of 12 months, and be capable of treating at least 60 tons weight of refuse per day of 24 hours. The person or firm whose tender may be accepted will be required to enter into a bond, and deposit a cash security in the sum of £500, for the due performance of the contract, and at the end of the term of 12 months (if tender is accepted under Schedule A) hand over the plant in good order and condition. John R. Palmer, Town Clk., Municipal Council, Sydney.

STREETS AND ROADS.

PORTLAND, ME.—Bids are asked until Aug. 21 for furnishing about 2,000 sq. yds. of New York paving blocks. Geo. N. Fernald, Comr. Pub. Wks.

BOSTON, MASS.—Bids are asked by the Massachusetts Highway Commission, No. 4 Mt. Vernon St., until Aug. 17 for building about 3,200 ft. of highway in Lunenburg.

CAMBRIDGE, MASS.—Mayor Champlin has instructed Superintendent of Streets Brown to proceed with the pavement of Harvard Square. The contract for about 500,000 brick for that work has been let to the Eastern Brick Co. of New York.

LENOX, MASS.—The contract for three miles of new road has been awarded to Asa Gardner of Worcester. An appropriation has been made by the state, the town and the cottagers for the work.

BRISTOL, CONN.—Bids are asked by the selectmen until Aug. 18 for macadamizing about 7,128 lin. ft. of roadway from Wakefield Place to Plainville.

HARTFORD, CONN.—The following appropriations have been made for state roads, with names of the selectmen who should be addressed in correspondence: Putnam, $4,500; C. D. Torrey. Cornwall, $4,500; R. N. Cochrane (West Cornwall). Ledyard, $3,000; A. J. Clark (Poquetanuck). Norwich, $4,500; A. S. Spalding. Enfield, $9,000; H. D. Alden (Thompsonville). Windsor Locks, $4,500; J. E. Mooney. Torrington, $4,500; C. M. Johnson. Cheshire, $9,000; A. S. Bennett. Rockville, $9,000; P. B Leonard. Bristol, $4,500; H. A. Warner. Ridgefield, $12,000; John Brophy. Oxford, $4,000; W. O Davis. Winsted, $4,500; R. W. Smith. Woodbridge, $4,500; R. C. Newton (Westville). Middlefield, $9,000; L. W. Fuller. Stamford, $5,000; E. S. Holly. Berlin, $4,500; E. I. Clark. Milford, $9,000; E. E. Bradley. Watertown, $4,500; G. A. Harper.

MILFORD, CONN.—The town has authorized the selectmen to build a road between Baldwins Tibbal's house and the Ellsmere Hotel at Laurel Beach.

NORWALK, CONN.—Local reports state that the council voted an appropriation of $5,700, Aug. 11, for paving North Water St.

BUFFALO, N. Y.—Bids are asked until Aug. 24 for paving Alamo Place, Dash and Remoleno Sts., and for repairing Lower Terrace. R. G. Parsons, Secy. Bd.

JAMAICA BAY (L. I.), N. Y.—The Co-operative Society of New Jersey has been granted a lease of a strip of land 150 ft. wide and four miles long extending from Long Point across Jamaica Bay to Far Rockaway. Patrick H. Flynn, Brooklyn, will construct a turnpike road 70 ft. wide over this strip with two toll gates, one at Long Point, and the other at Rockaway Beach. A double trolley track will be built on one side of the road; a bicycle track and driveway will occupy the remaining space. The society will spend $1,000,000 on the work, according to reports.

NEW ROCHELLE, N. Y.—The council on Aug. 8 voted to improve about six miles of principal streets of the city. The city has appropriated $150,000 for the work, and $150,000 is to be assessed against the owners of the abutting properties. Bids will be wanted by city clerk on Sept. 5.

ROCHESTER, N. Y.—The council contemplates the following street improvements: Construction of cement walks 4 ft. wide in six streets, cost $8,950; paving of Clinton Ave., cost $32,400; curbing and guttering in Scio St., cost about $2,500; macadamizing of Tremont St., cost $8,500; asphalt paving in Champlain St., at estimated cost, $32,000. Peter Sheridan, Cy. Clk.

ROCHESTER, N. Y.—Bids are asked until Aug. 18 for paving in 12 streets. Chas. M. Beattie, Clk.

ROCHESTER, N. Y.—The following bids were received Aug. 10 for paving: Olean St., asphalt—Warren-Scharf Asphalt Paving Co., $11,668; Rock Asphalt Paving Co., $11,740; Rochester Vulcanite Pavement Co., $11,764. McKee Tract, cement walks—H. B. Hooker, $9,974; Whitmore, Rauber & Vicinus, $10,614; Thos. Holahan, $10,065. Brunswick St., asphalt—Whitmore, Rauber & Vicinus, $11,172. Birr St., macadam—Whitmore, Rauber & Vicinus, $11,026; Wm. Fuller, $12,983; George Chambers, $10,832; H. N. Cowles, $10,205; Thos. Holahan, $11,244; W. H. Jones & Sons, $11,010. Chamberlain St., brick—H. B. Hooker, $4,868; George Chambers, $4,952; W. H. Jones & Sons, $5,259; H. N. Cowles, $5,098; Whitmore, Rauber & Vicinus, $5,030; Thos. Holahan, $4,992.

TROY, N. Y.—The contracts for the macadam road from Troy to North Greenbush, and from Troy to Brunswick, have been awarded to George A. Rogers, of Plattsburg.

WATERFORD, N. Y.—It is stated that a portion of the highway which extends from Waterford to Halfmoon, a distance of 8,000 ft. will be macadamized; estimated cost, $11,893.

GLOUCESTER CITY, N. J.—The council has voted to issue $100,000 in bonds for improving the streets. Address Councilmen Stimson and Thompson.

GUTTENBERG, N. J.—Bids are asked until Aug. 24 for the grading, flagging, curbing, and guttering of Polk St., West New York. Francis F. Town, Town Clk.

HOBOKEN, N. J.—Bids are asked until Sept. 13 for improving Jackson St., between 3d and 4th Sts. M. V. McDermott, Cy. Clk.

NEWARK, N. J.—Bids are asked until Aug. 17 for about 9,800 cu. yds. of excavation, 6,800 sq. yds. of paving, and about 7,500 lin. ft. of curbing in different streets. J. Crowell Mundy, Genl. Supt. Wks.

PATERSON, N. J.—Bids are asked until Sept. 1 for grading Mohawk and Lincoln Aves., in the borough of Hawthorne. Arthur F. J. Wheatley, Clk.

VINELAND, N. J.—Bids are asked until Aug. 24 for paving Sandis Ave. with brick. D. W. Sigafoo, Chn. Com.

BELLEVUE, PA.—It was voted Aug. 8 by the citizens of this place to issue $40,000 in bonds for street improvements.

PITTSBURG, PA.—It is stated that improvements will be made to the following roads under the Flinn law: Saltsburg, 3 miles; Steubenville pike, 3 miles; Blairsville, 2½ miles; and Freeport, 3 miles.

WEST CHESTER, PA.—The council on Aug. 12 decided to improve the principal streets of this place. It is stated that an appropriation of $15,000 will be made.

BALTIMORE, MD.—Wm. W. Varney, Cy. Comr., writes us that the ordinances which were passed by the mayor and council have been declared illegal by the city solicitor and that there is no immediate prospect of the paving being done.

NORFOLK, VA.—Bids are asked until Sept. 2 for laying about 5,000 sq. ft. of brick pavement at the navy yard. Mordecai T. Endicott, Ch. of Bureau, Washington, D. C.

HENDERSON, KY.—The Spottsville Iron & Gravel Co. has received a contract for macadamizing five miles of roadway in Henderson county.

LOUISVILLE, KY.—R. H. Young, County Engr., writes us that the contracts for turnpikes amounting to $30,000 have been let, and that $100,000 will be expended for road improvements in 1900.——Bids will soon be asked for paving a portion of Baxter St., about 6,500 ft. in length; estimated cost, $75,000.

BOWLING GREEN, O.—Bids are asked by the county commissioners until Aug. 26 for macadamizing two miles of the Pike Road. L. B. Fraker, Engr.

CUYAHOGA FALLS, O.—The council on Aug. 2 passed a resolution to pave Front St. from Show to Portage St.

GREENSPRING, O.—Bids are asked until Aug. 28 for the improvement of different streets. U. K. Slingfellow, Engr., Findlay; R. V. Johnson, Mayor.

HAMILTON, O.—Bids are asked until Aug. 17 for paving Hanover and Fourth Sts. R. S. Woodruff, Cy. Clk.

HICKSVILLE, O.—The contract for brick paving in High St. has been let to Clemmer & Johnson, at about $24,000. J. S. Cartwright, Engr.

LANCASTER, O.—Plans for paving High St. with brick are being prepared by John N. Wolfe, Cy. Engr. Bids will be asked soon, according to reports.

LIMA, O.—Contracts for paving of Wayne, Elm and Eureka Sts. have been awarded to the McArthur Bros., who will use Hallwood block as paving material.

NORWALK, O.—Bids are asked until Aug. 28 for the construction of sidewalks. T. P. Kellogg, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked by the board of public works until Aug. 21 for the improvement of sidewalks in eight streets.

KENDALLVILLE, IND.—James Graves, Mayor, writes us that it is probable that action will be taken by the council on ordinances for paving.

LIGONIER, IND.—The city clerk writes us that the proposed paving has been stopped by an order issued by the circuit judge, and that the work will probably be started next year.

TERRE HAUTE, IND.—Bids are asked until Aug. 25 for the construction of 21.8 miles of gravel road in Fayette township, Vigo county; estimated cost, $30,302. W. R. Paige, Engr.; James Soules, County Audr.

VEEDERSBURG, IND.—Bids are asked until Sept. 8 for paving Main and Second Sts.; estimates for the amount of work is as follows, the first being the estimates of Main St. and the second those of Second St.: Cu. yds. of excavation, 4,152, 2,421; lin. ft. straight curb, 1,372, 1,336; cu. yds. gravel for concrete, 780, 700; cu. yds. sand for concrete, 410, 234; bbls. Portland cement, 434, 430; sq. yds. cement filler, 4,031, 4,202; paving block, 162,000, 169,000. I. J. Walker, Town Clk.

CENTREVILLE STATION, ILL.—The contract for the new rock road has been let to J. Rider, at about $35,500, according to reports.

CHICAGO, ILL.—It is reported that L. E. McGann, Comr. Pub. Wks., is considering a proposition to establish a new system of improvements, including a territory of 15 miles lying in the towns of Kensington, Gaur, Roseland and West Roseland. Street paving is included in the improvements.

KEWANEE, ILL.—The contract for brick to be used in paving 25,000 sq. yds. in various streets has been awarded to the Purington Paving Brick Co.

QUINCY, ILL.—At a meeting at the mayor's office, Aug. 9, it was decided to build a 12-ft. macadam roadway on Broadway from 24th to 36th St. Bids will soon be asked for the work, which will cost about $1,700.

SENECA, ILL.—Bids are asked until Aug. 25 for laying about 2,300 ft. of concrete curb and gutter, about 2,300 ft. of Niagara limestone curb and brick gutter, and about 5,500 sq. yds. of macadam, as stated in our advertising columns. Archie Marshall, Jr., Village Clk.

JANESVILLE, WIS.—Bids are asked until Sept. 9 for laying about 7,000 sq. yds. of brick pavement on West Milwaukee St. P. F. Brown, Cy. Engr.

DES MOINES, IA.—Bids are asked by the board of public works until Aug. 18 for paving West Eleventh St. with brick; about 4,332 sq. yds.

KANSAS CITY, MO.—Geo. E. Kessler, Secy and Engr. Bd. Park Comrs., writes us that it has been finally determined to make the proposed Gillham Boulevard quite an extensive project. The matter will probably be submitted to the council for action, providing for condemnation proceedings, etc. August R. Meyer, Pres. Park Comrs.

KANSAS CITY, MO.—Bids are asked until Aug. 19 for grading of ten streets, for curbing and guttering of five streets, for asphalt paving of ten streets, for brick paving of three streets, and for laying granitoid sidewalks on two streets. Henry A. Wise, Cy. Engr.

SAN ANTONIO, TEX.—The following bids were received by Mayor Hicks, Aug. 1, for the draining and excavating of Quincy, Dallas, Trenton and other streets around Madison Square; total excavation, 10,050 cu. yds.: G. G. Braden, $2,342; W. W. Campbell, $2,371; D. Lehr, $2,479; John D. Garrett, $2,780.

DENVER, COLO.—It is stated that Larimer St. will be repaved with asphalt from 14th to 19th St.; estimated cost, $13,000.

TACOMA, WASH.—Contracts awarded for paving by Commissioner Hacker were as follows: J. C. Dickson, South 11th St., Pacific Ave. to A, $4,000; A St., South 9th to South 12th, $13,375; South 9th, Pacific Ave. to A, $4,123. Savage & Scofield, Jefferson Ave., from Pacific Ave. to E St., at $17,337. Rydstrom & Goerig, C St., 7th to 9th, $13,000; St. Helens Ave., 9th to C, $1,290; C St., 9th to Jefferson, $46,924.

PLACERVILLE, CAL.—J. L. Maude, Highway Comr., Sacramento, Cal., writes us that the last session of the legislature appropriated $25,000 for the construction of bridges and other road structures on the Lake Tahoe Wagon Road, a state highway, and for otherwise putting the same in repair. The money for this purpose, however, does not become available until after Jan. 1. For that reason no steps have as yet been taken toward any work on the road. There is also an appropriation of $25,000 for the construction of a road across the high Sierras, from Tioga to some point in the Mono Lake Basin. No steps will be taken toward the construction of this road before next spring. While nothing in the law provides for the erection of stone bridges. Mr. Maude expects to make it the policy of the department to erect bridges of no other class, unless the erection of a stone bridge is impracticable, the policy of the department being to make the work of a permanent character.

TORONTO, ONT.—It is stated that improvements will be made to Lippincott, Robinson and Morse Sts. by paving, curbing, etc., to cost about $4,750, $2,270, $323, respectively.

MANUFACTURING PLANTS.

SPRINGFIELD, VT.—The Jones & Lampson Machine Co. are making extensive improvements to its plant at Springfield, and have let the contract to the Berlin Iron Bridge Co., East Berlin, Conn., for a new steel building, 60 × 95 ft.

SCHENECTADY, N. Y.—The Hilton Bridge Construction Co., Albany, N. Y., has been awarded the contract for the steel work, and John J. Turner, Amsterdam, N. Y., the contract for the mason and carpenter work on the addition to the iron factory building No. 83 at the General Electric Works. It is expected that the contracts will be completed by Jan. 1.

SYRACUSE, N. Y.—William Sherlock and Henry I. Ryan have been awarded the contract for erecting four 4-story brick dwellings, 40 × 90 ft. each, for the Onondaga Pottery Co., in connection with its plant on West Fayette St. Archimedes Russell, Arch.; James Pass, Supt.

UTICA, N. Y.—R. L. Foxburgh, Buffalo, N. Y., has been awarded the contract for erecting three brick factory buildings of mill construction for the newly organized Utica Knitting Co.; estimated cost of buildings, $100,000. Quentin McAdam and Geo. E. Farrell are directors.

ALLEGHENY, PA.—The York Mfg. Co., York, Pa., has been awarded the contract for erecting the proposed ice plant of the Standard Ice Mfg. Co. on River Ave., at about $185,000. E. John Kauffman, New York, is in charge of construction.

DUQUESNE, PA.—L. Benz & Bros. are reported to have been awarded the contract for erecting the buildings of the Duquesne Brewing Co., to cost about $150,000.

PHILADELPHIA, PA.—Andrew J. Brunner, Germantown, Philadelphia, has been awarded the contract for constructing an extension of the plant of Why Bros., at Wakefield and Collom Sts.

PITTSBURG, PA.—A. & T. McKenna, brass founders, have purchased the old Edward A. Denniston property at Ross and Water Sts., with the intention of erecting a new 3-story brick foundry building, to cost $45,000, exclusive of equipment.

ILCHESTER, MD.—Lockwood & Green, Boston, Mass., are reported to have prepared plans for a new brick and stone silk mill to be erected here for the Thistle Mills Co.; estimated cost, $150,000.

HUNTSVILLE, ALA.—It is reported that capitalists of Freeport, Ill., have decided to establish a brewing plant at this place, to cost about $50,000.——The Huntsville Fiber & Veneer Co. has been organized, with a capital stock of $35,000, to rebuild the hickory, broom and fiber factory which were destroyed by fire a month ago. E. M. Ford, Pres. and Gen. Mgr.

BEREA, O.—A fire in this city destroyed the paint department of the Cleveland Stone Co.'s plant, and destroyed a number of buildings with valuable machinery; estimated loss, $100,000.

ENON, O.—J. W. Burke, Pres. Bd. of Trade of Springfield, O., has appointed a committee to co-operate with the Dayton Beet Sugar Co. in establishing a sugar plant near this place.

NORWOOD, O.—Bids will soon be asked, according to reports, for erecting a new factory building, 300 × 250 ft., for the Globe-Wernicke Co.; estimated cost, $135,000.

CHICAGO, ILL.—Contracts are reported to have been let for erecting a 5-story building, 80 × 150 ft., for the W. W. Kimball Piano Co., to cost $35,000. William Strippelman, Arch.

FALUN, SWEDEN.—Press reports state that the Engine & Car Works Co. is being organized to erect a plant for the construction of locomotives and other railway rolling stock, of sufficient size to turn out about 50 locomotives and 3,000 cars a year.

OSAKA, JAPAN.—Press reports state that the Osaka Iron Works have decided to build a large ship yard and to increase their machine shop capacity. Contracts for new machinery will probably be let soon.

GAS PLANTS.

NEW YORK, N. Y.—Bids are asked until Aug. 25 for lighting by gas various precinct station houses, stables and department buildings in the boroughs of Brooklyn and Queens. William H. Kipp, Ch. Clk.

COLUMBIA, PA.—Bids are asked until Sept. 4 for lighting by gas or electricity the streets of the borough of Columbia and the Opera and Market house. Adam Rodenhauser, Chn. Light and Water Com.

TOLEDO, O.—The contract for building the city gas plant was awarded to Charles D. Hauk, New York, on Aug. 2, by Mayor Jones, at $250,000.

KOTA-RADJA, ATCHEEN, SUMATRA.—It is stated that bids are wanted for lighting the city with an incandescent gas lamp system similar to the one used in Washington. Copies of plans are on file at the Bureau of Foreign Commerce, Department of State, Washington, D. C. Address W. H. Smit, Concessionaire, care of U. S. Consul S. B. Everett, Batavia, Java.

MISCELLANEOUS CONTRACTS.

SUBWAY.—Chicago, Ill.—It is stated that City Engineer Ericson will prepare plans for the proposed subway.

TELEPHONE.—Oxford, Ala.—It is stated that the Calhoun Telephone Co. will extend its telephone lines through several towns.

DOCK IMPROVEMENT.—Belfast, Ireland.—Bids are asked until Sept. 4 for widening the entrance to Spencer dock. W. A. Currie, Secy.

DREDGING.—San Francisco, Cal.—Bids are asked until Sept. 5 for dredging in Petalume Creek. Maj. W. H. Heuer, U. S. Engrs., Flood Bldg.

JETTY.—Los Angeles, Cal.—The contract for the extension of the jetty at Port Harford, near San Luis Obispo, has been let to Capt. A. A. Polhemus.

BAYOU IMPROVEMENT.—New Orleans, La.—Bids are asked until Sept. 1 for the improvement of Johnson's Bayou. Maj. James B. Quinn, U. S. Engrs.

DITCH.—Kenton, O.—Bids are asked until Aug. 19 for the construction of the Scioto River ditch of about 114,779 cu. yds. James Bastable, County Audr.

LEVEE WORK.—Claryville, Mo.—Bids are asked by the board of directors until Sept. 2 for building about 150,000 cu. yds. of levee in Percy county. A. H. Morey, Pres.

RECLAMATION.—Victoria, B. C.—Reports state that it has been voted for the reclaiming of the James Bay flats. Plans will be prepared and a company organized to do the work.

DREDGING.—New York, N. Y.—Bids are asked by the department of docks and ferries, Pier A, North River, until Aug. 21, for dredging north of West 34th St. on the North River.

DITCH.—Algona, Ia.—Bids are asked until Sept. 4 for excavating about 54,824 cu. yds. for the ditch known as Public Drain No. One in Kossuth county. M. P. Weaver, County Audr.

NAVY YARD IMPROVEMENTS.—Brooklyn, N. Y.—The expenditure of $160,000 for the proposed improvements at the Brooklyn Navy Yard is authorized and the work is to be begun soon.

TELEPHONE.—Abilene, Kan.—It is stated that the council has granted a telephone franchise to Brown & Son, of this city, who will put in a plant in connection with their electric light system.

PARK.—Kansas City, Mo.—It is stated that the question of building a park at Twelfth St. and Garfield Ave. is being considered. The cost for the condemnation of property will be about $100,000.

LOCK AND DAM.—Mobile, Ala.—Bids are asked until Sept. 13 for building lock and dam No. 4, Black Warrior River, as stated in our advertising columns. R. C. McCalla, Asst. Engr., Tuscaloosa.

DISAPPEARING GUN CARRIAGES.—Washington, D. C.—Bids are asked until Aug. 26 for furnishing five 12-in. disappearing gun carriages, L. F., Model 1897. Brig.-Gen. A. R. Buffington, Ch. Ordnance.

PARK ENTRANCE.—Newark, N. J.—Bids are asked until Sept. 5 for the Clifton Ave. entrance in Branch Brook Park, as stated in our advertising columns. A. Church, Secy. Essex County Park Comn.

DITCH.—Utica, N. Y.—It is stated that commissioners have been appointed by County Judge Smith to decide if another ditch shall be constructed for the purpose of reclaiming the land north of Canastota.

EXCAVATION.—Cincinnati, O.—Bids are asked until Sept. 2 for excavating about 100,000 yds. of earth, within city limits, as stated in our advertising columns. Earnshaw & Punshon, Engrs., Glenn Bldg.

TELEPHONE.—Milwaukee, Wis.—J. D. McLeod, Gen. Mgr. Wisconsin Telephone Co., is quoted as stating that the company will expend about $1,000,000 for the improvement of its system throughout the state.

BREAKWATER.—Oswego, N. Y.—Bids are asked until Sept. 11 for constructing 350 lin. ft. of timber crib breakwater at Cape Vincent, as stated in our advertising columns. Capt. Graham D. Fitch, U. S. Engrs

CHANNEL.—San Jose, Cal.—We are informed that the plans for grading and excavating the new channel of the Guadalupe River have been completed and given to Supervisor Roll of the River Improvement Committee.

DREDGING.—Urbana Creek, Va.—Bids are asked until Sept. 16 for dredging in Rappahannock River and Urbana Creek, as stated in our advertising columns. Lt.-Col. Chas. J. Allen, U. S. Engrs., Washington, D. C.

BREAKWATER.—New York, N. Y.—Bids are asked until Sept. 12 for building riprap breakwater at Larchmont Harbor, Long Island Sound, as stated in our advertising columns. Lt.-Col. W. H. H. Bengaurd, U. S. Engrs.

LOCK BOXES.—Washington, D. C.—Bids are asked until Aug. 23 for furnishing the post-office lock boxes, etc., for U. S. public buildings during the fiscal year ending June 30, 1900. James Knox Taylor, Supervising Arch.

PIER.—New York, N. Y.—Bids are asked by the department of docks and ferries, Pier A, North River, until Aug. 21, for building a pier at the foot of Fordham Road, Harlem River, and for removing the present pier and dredging thereat.

RIVER IMPROVEMENTS.—Richmond, Va.—Bids are asked until Sept. 14 for deepening and widening channel of James River, for repairing jetties, constructing dikes, etc., as stated in our advertising columns. Lt.-Col. Chas. J. Allen, U. S. Engrs.

MACHINERY.—Enfield, England.—Bids are asked until Aug. 30 for the following machinery: Screw-cutting, gap lathe, to take 6 ft. between centers; shaping machine, with 16-in. stroke; drilling machine, to take 24 ins. T. W. Scott, Clk. Council.

DOCK.—Rochester, N. Y.—It is stated that the steamship companies will build a new dock at Charlotte, and by co-operating with the Rochester Ry. Co. to have the passengers brought to the city by either the east or the west side trolley lines.

DREDGING.—Newport, R. I.—Bids are asked until Sept. 15 for dredging the Pawtucket River and the channel at the entrance to Great Salt Pond, Block Island, R. I., as stated in our advertising columns. Maj. D. W. Lockwood, U. S. Engrs.

LOCK APPROACHES.—Nashville, Tenn.—Bids are asked until Aug. 28 for the construction of lock approaches and abutment protection for Lock No. 1, Cumberland River, as stated in our advertising columns. Lt.-Col. M. B. Adams, U. S. Engrs.

TELEPHONE.—Kansas City, Mo.—The Independent Telephone Co. was granted a franchise Aug. 3. Capital stock, $300,000. Geo. T. Stockham, E. O. Moffatt, C. A. Braley and others are interested. The company has already received 2,700 contracts.

TELEPHONE LINES.—Mexico City, Mex.—The war department of Mexico has let a contract for telephone lines to G. & O. Braniff, of Mexico City. The government, it is stated, will probably soon let further contracts for telephone line extensions throughout the country.

LEVEE.—Houston, Tex.—Bids are asked by the Trinity Rice-Land & Irrigation Co. until Aug. 22 for constructing levees on their Chambers county rice canal. Bids may be made on from one to four miles of the work. F. W. Schwettmann, Secy., care of Cameron & Moore.

RIVER BANK IMPROVEMENT.—Cincinnati, O.—Bids are asked until Sept. 8 for the construction of pile and loose rock protection of the Little Miami River bank, on and near the water-works grounds, near California. Aug. Herrmann, Pres. Bd. Trustees. Charles G. Roth, Clk.

SURVEY.—New Castle, Pa.—Local papers state that the state survey commission has decided to begin the topographical and geological survey of the entire state. An appropriation of $40,000 was authorized by the last legislature, and was signed by the Governor for that purpose.

TELEPHONE.—Louisville, Ky.—It is stated that a new telephone company is being formed to compete with the Ohio Valley Telephone Co., with a capital stock of $2,000,000. J. A. Steman, New York, has secured the transfer of the franchise granted to the Louisville Underground Electric Light, Telegraph & Telephone Co. for the new company.

DITCH.—Marion, O.—Bids are asked until Aug. 30 for the improvements to George St. ditch, as follows: About 2,200 lin. ft. of 3-ft. double-ring brick arch; 600 lin. ft. of 2.5-ft. double-ring brick arch; 1,200 lin. ft. of 2.6-ft. single-ring brick arch; 14,979 cu. yds. of earth and rock excavations; 10 manholes; 25 catch-basins. V. K. Guthery, County Audr.; J. W. Scott, County Surv.

TOWPATH.—Albany, N. Y.—Superintendent of Public Works Partridge awarded on Aug. 10 the following contracts for the improvement of the towpath in the middle and western divisions: Erie Canal, O'Brien & Houlihan, Syracuse, section 5, middle division, $10,287, and section 6 at $9,937; Wm. T. O'Connor, section 7, western division, at $1,667; section 8, $5,889 and section 9, $11,302.

LUMBER.—Albany, N. Y.—The following bids were received Aug. 11 by the superintendent of public works for furnishing lumber. M. Van Kuren, Valley Falls, $1,975, white pine, Eastern Division; Dexter Hunter, Albany, $10,652, Georgia pine, Eastern Division; C. R. Snell, Herkimer, $4,746, white oak, maple and hemlock, Eastern Division; W. J. Dondle, Oswego, $15,240, Middle Division.

FERRIES, CABLE LINE, ETC.—Copenhagen, Denmark.—Press reports state that it has been proposed by the government, as soon as the necessary grant can be obtained from the Folkthing, to take steps for the establishment of two large steam ferries and for the construction of a cable line between Gjedser and Walnemuende; and also for building a railway bridge across the Little Belt, and thus uniting Jutland with the island of Fyen. The distance is about 1½ miles. The length of the bridge will be about 2,500 ft., and the cost is estimated at $4,000,000. In this latter undertaking it is stated that American competition will be considered. The project will be undertaken or subscribed for within the next four months.

CONTRACT PRICES.

WATERPROOF ASPHALT.—Fort Delaware, Del.—We are informed that Lieut.-Col. C. W. Raymond, U. S. Engr., Philadelphia, received the following bids Aug. 12, 1899, for covering with asphalt the concrete platform steps of the new battery at Fort Delaware; the asphalt to be 1½ and 1-in. thick, respectively, and in place; bidders of Philadelphia, except when otherwise stated:

Bidder.	Asphalt, 1,090 sq.yds.	Asphalt, 210 sq.yds.	Total.
Sicilian Asp. Co., Times Bldg., N. Y.	$1.71	$1.44	$2,166
W. S. P. Shields, 705 Witherspoon Bldg	2.27	1.53	2,796
Am. Artificial Stone Pavement & Construction Co., 211 So. 9th St.	3.00	3.00	3,900
Vulcanite Paving Co, 1710 Market St.	1.62	1.44	2,068
T. Hugh Boorman, 32 Broadway, N. Y.	1.74	1.29	2,168

PAVING.—Chattanooga, Tenn.—The board of public works received the following bids July 24, 1899, for repaving in Market St., between 6th and 9th Sts.: Asphalt paving.—Warren-Scharf Asphalt Paving Co., relaying asphalt, $1.20 a yd.; relaying 12-ft. strip, $1 a yd.; repairs, $1.60 a yd.; brick gutters, $1.45 a yd.; Green River Asphalt Co., St. Louis, resurfacing, $1.65 a yd.; brick gutters, $2.20 a yd.; relaying 12-ft. strip, $1.63 a yd.; repairs, $1.95 a yd. The specifications called for resurfacing Market St. with asphalt the entire length of thoroughfare,

between 9th and 6th Sts.; also for the relaying of a strip of asphalt 12 ft. wide on both sides of the street, in the event the board decided that it would be unnecessary to repave the street all the way across. The specifications also called for brick gutters with asphalt. Brick paving.—Tennessee Paving Brick Co., $1 a yd.; Virginia Paving Co., $1.55 a yd.; Coaldale Brick Co., $1.59 a yd.

FLUSHING APPARATUS.—Honolulu, H. I.—The following contract was let Aug. 10, 1899, to Frank Walker, 748 West 1st St., Los Angeles, Cal., patentee of the Walker patent automatic flushtank siphon, for furnishing flushing apparatus for the sewers in Honolulu, as advertised in Engineering News; Rudolph Hering, Engr., 100 William St., New York:

Items.	Discharge, depth of water.	Free flow discharge, a sec., gallons.	Delivered at Honolulu, each.
No. 1 siphon, 5-in.	2 ft. 0 ins.	5	$17.50
No. 2 siphon, 6-in.	2 " 4 "	7½	21.00
No. 2½ siphon, 6-in.	1 " 8 "	7½	21.00
Two No. 2 siphons*	2 " 4 "	15	30.00
Three No. 2 siphons†	2 " 4 "	22½	40.00
No. 3 siphon, 8-in.	2 " 9 "	12½	26.00
Two No. 3 siphons*	2 " 9 "	25	40.00
Three No. 3 siphons†	2 " 9 "	37½	55.00

*Under one dome for 2 sewer tanks. †Under one dome for 3 sewer tanks. Part of the contract to be shipped as soon as let, and all to be furnished inside of 35 days. Guaranteed for five years.

PARK WORK.—Cleveland, O.—The following bids were received Aug. 2, 1899, for macadam paving and other work in the parks; C. W. Pratt, Jr., Ch. Engr. Bd. Park Comrs; all bidders of Cleveland; contract let to Spence Bros.:

Quantities.	No. Ohio Paving & Const'n Co.	W. H. Ford & Co.	Spence Bros.
Grading ..... 6,000 cu. yds.	$0.25	$0.40	$0.25
Edgestones .. 1,000 lin. ft..	.62	.50	.45
Macadam:			
Telford* ...11,000 sq. yds.	1.95	2.30	1.89
Telford† ... 3,000 " "	1.75	2.10	1.75
Walks .... 8,000 " "	.75	.75	.70
Fine trap r'k 500 cu. yds.	4.00	4.45	3.50
Brick pavement12,000 sq. yds.	1.65	1.62	1.43
Excav., trnch 3,000 cu. yds.	.50	.60	.27
Pipe and specials:			
6-in. ..... 500 lin. ft..	.05	.07	.08
8-in. ..... 2,500 " "	.10	.14	.09
10-in. ..... 800 " "	.14	.16	.15
12-in. ..... 200 " "	.20	.25	.20
15-in. ..... 700 " "	.30	.35	.25
Catchbasins:			
Large ..... 55 each...	27.00	33.00	29.00
Small ..... 60 " ...	15.00	28.00	25.00
Loam ..... 3,000 cu. yds.	.80	1.10	.75
Sodding ..... 7,000 sq. yds.	.12	.15	.13
Total	$64,382	$72,618	$60,161

*18½ ins. deep. †15½ ins. deep.

WATER MAINS, ETC.—Philadelphia, Pa.—We are informed that the following bids were received Aug. 9, 1899, for cast-iron water pipe, etc.: Furnishing 36-in. and 48-in. piping—U. S. Cast Iron Pipe & Foundry Co., Land Title Bldg., Philadelphia, 1.27 cts. a lb.; Reading Foundry Co., Reading, Pa., 1.33 cts. a lb.; Camden Iron Works, 400 Chestnut St., Philadelphia, 1.25 cts. a lb. Cast-iron stop-boxes—J. Howard Bing, 3737 Filbert St., Philadelphia, 1.80 cts. a lb.; David S. Creswell, 837 Race St., Philadelphia, 2½ cts. a lb. Excavating pipe trenches—Robt. Osborne, Jr., 542 North 23d St., Philadelphia, earth 81 cts. a cu. yd., rock $1.85. Howard E. Ruch, 2831 Hutchinson St., Philadelphia, earth 66 cts., rock $1.45. Jones & Wallace, Wissahickon, Philadelphia, earth 65 cts., rock 65 cts. The bids for the pumps, boilers, etc., are given under Water-Works.

WATER-WORKS.—Conneautsville, Pa.—We are informed that the following bids were received Aug. 8, 1899, for furnishing the material and for constructing water-works, as advertised in Engineering News. J. B. Strawn, Engr., Salem, O.: (1) being for 4-in. cast-iron water pipe; (2) for 6 and 8-in. pipe; (3) for 8-in. valves; (4) for 6-in. valves; (5) for 4-in. valves; (6) for valve boxes; (7) for special castings; (8) for 6-in. hydrants, frost cases; (9) 4-in. hydrants, frost cases; (10) 6-in. hydrants, no frost cases; (11) 4-in. hydrants, no frost cases; (12) for laying 8-in. pipe; (13) for 6-in. pipe; (14) for 4-in. pipe; (15) for reservoirs; (16) totals: Chandley Bros. & Co. (1) $31 a ton; (2) $29.85; (3) $16; (4) $11 each; (5) $7; (6) $3 each; (7) 3 cts. a lb.; (8) $25 each; (9) $25; (12) 20 cts. a ft.; (13) 16 cts.; (14) 15 cts.; (15) $704; (16) $9,704. Rosser & Castoe (1) $29.85; (2) $28.85; (3) $17; (4) $11.25; (5) $7; (6) $3; (7) 3 cts.; (10) $23.25 each; (11) $22.90; (12) 18 cts.; (13) 17 cts.; (14) 14 cts.; (15) $638; (16) $9,473 (accepted). C. C. McVey (12) 19 cts.; (13) 17 cts.; (14) 14 cts. Monthrop & Sons (3) $16.25; (4) $11; (5) $6.50; (6) $2.50; (7) 2¾ cts.; (8) $23.00; (9) $23.10; (10) $22; (11) $21. Canta Wheel & Foundry Co. (3) $16.25; (4) $11; (5) $6.50; (6) $2.50; (7) 2¾ cts.; (8) $23.00; (9) $23.10; (10) $22; (11) $20.50. Kennedy Valve Mfg. Co. (3) $15.50; (4) $10.50; (5) $6.50; (6) $2.50; (8) $26.50; (9) $23; (10) $24.75; (11) $21.25. R. D. Wood & Co. (1) $30; (2) $28.50 (3) $16.50; (4) $11.25; (5) $7.25; (6) $2.85; (7) 2⅝ cts.; (8) $22; (9) $22. Bourbon Copper & Brass Works (3) $13.50; (4) $9.30; (5) $5.50; (6) $2.25; (8) $22.50; (9) $22.50; (10) $18; (11) $18. Michigan Brass & Iron Works (3) $17; (4) $10.50; (5) $7; (6) $3; (8) $24; (9) $23; (10) $24; (11) $23. Ludlow Valve Mfg. Co. (3) $16.65; (4) $11.25; (5) $6.75; (6) $3.10; (8) $23.20; (9) $23.20. M. J. Drummond & Co. (1) $27; (2) $26; (3) $14.25; (4) $9; (5) $6; (6) $2.85; (7) 2½ cts.; (10) $22; (11) $20.50. H. E. Hilton and C. R. Whittington (12) 20 cts.; (13) 18 cts.; (14) 16 cts. U. S. Pipe & Foundry Co. (1) $28.85; (2) $27.85; (7) 2¾ cts. Rensselaer Mfg. Co. (3) $17; (4) 11 cts.; (5) $7; (6) $2.75; (10) $22.75; (11) $22.75. Eddy Valve Co. (3) $17; (4) $11.25; (5) $7; (6) $3; (10) $23.25; (11) $22.90.

DREDGING.—Port Chester Harbor, N. Y.—Lieut.-Col. W. H. H. Benyaurd, U. S. Engr., New York, received the following bids Aug. 12, 1899, for dredging in Port Chester Harbor:

Bidder.	A cu. yd. Dredging, cts.	A cu. yd. Rock excavation.	Total.
Newburgh (N. Y.) Dredging Co..	18	$8.80	$19,760
Hartford (Conn.) Dredging Co..	21	10.00	22,880
Internat'l Dredging Co., Syracuse	19	9.00	20,670

SINKING WELL.—Blair, Neb.—Henry Mencke, Cy. Clk., writes us that the following bids were received Aug. 1, 1899, for sinking an 8-in. well: C. D. Randall, So. 23d St., Omaha, $275, sinking well alone, well 100 to 105 ft.; J. H. Shaw, Omaha, Neb., $773, sinking well and one deep Cook well pump; Nebergall Drilling Co., 206 Sheely Bk., Omaha, $825, sinking well and deep Cook well pump; Cook Well Co., St. Louis, Mo., for well only, $3.75 a ft.; George Sutherland, Blair, $778, sinking 8-in. well and Cook pump (awarded contract).

LAYING MAINS, ETC.—Oconomowoc, Wis.—Otto C. Peters, Cy. Clk., writes us that the following bids were received Aug. 7 for laying water mains; contract let to T. H. Iglehart; Webster & Blake bid $2 for setting each hydrant; for gate valves set, each, 4-in. $2, 6-in. $2.25, 8-in. $2.50, 10-in. $2.75, 12-in. $3.35.:

Bidder.	Pipe 4-in., 2,650 ft., cts.	6-in., 10,565 ft., cts.	8-in., 12,700 ft., cts.	10-in., 2,490 ft., cts.	12-in, 2,700 ft., cts.
J. M. Healy, Chicago, Ill..	18½	20	29¾	27½	32
Reichert Con. Co., Racine.	20	24	26	30	36
L. Larsen & Co., Oshkosh.	25	28	30	35	40
T.H.Iglehart,Morgan Park.	17	20	24½	28	28½
J. O. Jones, Racine.....	20	27	27	32	37

ASPHALT PAVING.—Peoria, Ill.—The following were the only bids submitted July 17, 1899, for asphalt paving in Callendar Ave. and Perry St.: The Warren-Scharf Asphalt Paving Co., 30 cts a yd. for excavation, 65 cts. a ft. for artificial curbing, 6 cts. a ft. for protection curb, and $1.70 a sq. yd. for asphalt; The I. F. Conway Co., Chicago, 30 cts. for excavation, 70 cts. for curb, 20 cts. for protection curb, and $2.52 for asphalt.

RUBBLE STONE AND RIP-RAP.—Long Beach, Mass.—Col. Chas. R. Suter, U. S. Engr., P. O. Box 5346, Boston, received the following bids July 29, 1899, for rubble stone and rip-rap at Long Beach: Dexter H. Craig, Plymouth, Mass., Quincy granite, $1.75; Kingston, a ton of 2,000 lbs., $1.47; John P. Conkling, New York, N. Y., $2.10; Pigeon Hill Granite Co., Rockport, Mass., $1.73; Rockport Granite Co., Rockport, Mass., $1.93; Samuel F. Randolph, New York, N. Y., $1.449; Bell & Co., Boston, Mass., $1.33.

PORTLAND CEMENT.—Savannah, Ga.—The following bids were received July 22, 1899, by the U. S. Engineers, Savannah, for furnishing 5,000 bbls. of Portland cement for Tybee Island, Ga.: Lehigh Portland Cement Co., Allentown, Pa., $2.30 a bbl.; Southeastern Lime & Cement Co., Charleston, S. C., $2.47 a bbl. Both f. o. b. Tybee Island.

BRICK PAVING.—Quincy, Ill.—Simons & Mikesell have been awarded a private contract by the property owners on Grove Ave., between 18th and 20th Sts., for 1,893 sq. yds. of brick paving in Grove Ave. between those streets at $1.03 a yd. for paving, 13 cts. a cu. yd. for excavating and 33 cts. for 1,420 lin. ft. of curbing.

LEVEE WORK.—New Orleans, La.—The Pontchartrain Levee District has awarded the following contracts: Chenet levee, M. Mitchell, $42 a 100 ft.; Good Hope levee, $18 a 100 ft.; Bayou Latanasche levee, Atchalaya District, Jones & Williams, 23.40 cts. a cu. yd.

EXCAVATION.—Point Washington, Wash.—Capt. Harry Taylor, U. S. Engr., Seattle, received the following bids July 17, 1899, for 132,000 cu. yds. of excavation at Point Washington: Hale & Smith Co., Portland, Ore., $35,640; Ridstrom & Goerig, Seattle, $48,840; Cascade Construction Co., Portland, Ore., $50,100; Peter M. Coyne, Port Townsend, Wash., $55,220; C. P. Church, Portland, Ore., $36,500; E. C. McClanahan & Dennis Conroy, Seattle, $63,620.

JETTY STONE.—St. Augustine, Fla.—The following bids were received Aug. 7, 1899, for 60,000 tons of stone in place in jetties at the mouth of St. Johns River, Fla.; Capt. C. H. McKinstry, U. S. Engr.:

Bidder.	Class, First.	Second.	Third.
J. H. Egan, Charleston, S. C.....	$2.35	$2.12	$1.85
Edw. H. Gaynor, Boston	2.17	2.11	1.99
Stewart Cont. Co., Columbia.....	2.44	2.20	2.19
W. K. Cornish & Co., Birmingham	2.40	2.28	2.16
R. G. Ross, Jacksonville.	2.60	2.40	2.20

DREDGING.—Portland, Me.—We are informed that following bids were received Aug. 2, 1899, by Maj. S. W. Roessler U. S. Engr., Portland, for dredging in Cocheco River, Me.: A. R. Wright, Portland, $1 a cu. yd.; Alonzo E. Smith, New York, $1.45; Augustus B. Martin, Boston, 90 cts.

LEVEE WORK.—Alexandria, La.—The following bids were received Aug. 2, 1899, by the board of commissioners of the Red River levee district for 100,000 cu. yds. of work in the upper Bayou Des Glaizes levee, Avayelles District: Sam Robertson, Lake Charles, La., 11.94 cts.; Coco & Cason, Moreauville, La., 9.24 cts.; Hearin & O'Connor, Baton Rouge, La., 12 cts.; J. H. Parks & Bro., Crowley, La., 10.20 cts.; C. D. Leeper, White Castle, La., 11.49 cts.; Deely & Burns, Crowley, La., 9.45 cts.; D. P. Lyles, Bunker, La., 10.25 cts.; M. L. Linnan, Cinclaire, La., 10.74 cts.

ASPHALT PAVING.—Camden, N. J.—The following bids were received Aug. 8, 1899, for asphalt paving in Broadway and Kaighn Ave.: Vulcanite Paving Co., $2.51 a yd. on Broadway and $2.53 on the avenue; Pennsylvania Asphalt Co., $2.58; Warren-Scharf Asphalt Paving Co., $2.63.

STONE SIDEWALKS.—Boston, Mass.—The following bids were received Aug. 9, 1899, for 23,000 sq. ft. of artificial stone sidewalks in Devon St.: Simpson Bros., $19.95 cts. a sq. yd; H. Johnson & Co., 18¼ cts.; Pat'k Lyons, 16 cts. (accepted); Taylor, Carr & Andrews, 18.5 cts.; P. F. Lonegan, 18 cts.; W. A. Murtfeldt & Co., 21 cts.

ASPHALT PAVING.—Detroit, Mich.—The Barber Asphalt Paving Co. submitted the lowest bid as follows on Aug. 7, 1899, for certain asphalt paving, (1) being with Medina curbing and (2) with Elyria curbing: Rosedale Court, new, (1) $2.97, (2) $2.90; Grummond Ave., new, (1) $3.02, (2) $2.94; Erskine St., repaving, (1) $2.76; John R St., repaving, (1) $2.69, (2) $2.66; grand total, about $84,000. All the bids were rejected and new ones will be asked. Contracts were awarded as follows for cedar paving: Harper Ave., James Brant, $1.45 a yd.; 18th St., Wm. Lappin, $1.54; Mott St., Arch. Grant, $1.42; Orleans St., Henry Meridian, $1.51; Scotten Ave., James Grant, $1.47.

LEVEE WORK.—Marysville, Cal.—F. E. Smith, Cy. Clk., writes us that the following bids were received Aug. 1, 1899, for certain levee work; the totals given are the amounts of the bids accepted only: Jacob Schimpf, Marysville, sections 1 to 10, inclusive, about 35,000 cu. yds., 26 cts. a cu. yd.; 22 cts., 19 cts., 16 cts., 17½ cts.; 12½ cts., 15 cts., 25 cts., 22 cts., 21 cts.; total, $2,838. John Stevenson, Marysville, section 9, 6,208 yds., 18½ cts.; do., 10, 5,136 yds., 16½ cts.; total, $1,996. O. A. Wilbur, Yuba City, Cal., section 6, 4,378 yds., 11 cts.; section 7, 14 cts.; section 8, 15 cts.; total, $1,156. H. R. Willis, Marysville, section 2, 3,755 yds. 21 cts.; section 4, 16½ cts.; total, $789. The levee when completed will be 5 ft. 3 ins. above high water mark, with a crown of 8 ft. Slope 3 ft. to 1 ft. on water side of levee and 2 ft. to 1 ft. on land side.

LAYING WATER PIPE.—Deadwood, S. Dak.—W. M. Barker has been awarded the following contract for laying about 7,000 ft. of water pipe: 10-in. pipe, 58 cts. a ft.; 6-in. pipe, 42 cts.; setting valves, $2.50 each; laying pipe under creek, $150.

INDUSTRIAL NOTES.

THE VULCAN IRON WORKS CO., Toledo, O., has recently made several shipments of steam shovels to Sweden.

THE BLAKESLEY MFG. CO., Woodlawn, a suburb of Birmingham, Ala., has just shipped its first carload of gas engines.

WESTINGHOUSE, CHURCH, KERR & CO., Pittsburg, have an order for 256 Roney stokers for the Manhattan Ry., New York, to be used in connection with Babcock & Wilcox boilers in the new power house.

THE BRODHEAD CONTRACTING CO., Easton, Pa., is at present engaged on work for the National Steel Co., at Youngstown, Ohio, including 100,000 cu. yds. of excavation and building 10,000 cu. yds. of retaining wall in addition to the 14,000 cu. yds. of wall built last fall and winter.

THE NEW ENGLAND ENGINEERING CO., Waterbury, Conn., has been awarded contracts for building of a 1,000-HP. light and power station at Lynchburg, Va., and for a gas plant at Norwalk having a daily capacity of 400,000 cu. ft. The contracts are said to amount to over $100,000.

THE E. P. ALLIS CO., Milwaukee, has an order for two 300-HP. engines to be erected on the Isle of Thanet, England, to be used in the power plant of the new trolley road there, and also the contract for the engines for the Glasgow tramways, the latter contract amounting to over $500,000.

THE A. & P. ROBERTS CO., Philadelphia, is announced as having received orders for 7,000 to 8,000 tons of steel bridges for the Imperial Government railway of Japan. The contract is said to amount to $750,000, and to call for 45 spans of 100 ft. and several of 200 ft., the entire lot to be delivered within one year.

THE NILES-BEMENT-POND CO. has been incorporated, with a capital stock of $8,000,000, as successor to the Niles Tool Works Co., Hamilton, O.; Pond Machine Tool Co., Plainfield, N. J.; Bement, Miles & Co., Philadelphia, and the Philadelphia Engineering Works, Philadelphia, manufacturers of heavy machine tools, such as planers, borers, drillers and lathes.

THE DIAMOND STATE STEEL CO., Wilmington, Del., has been organized as a successor to the Diamond State Iron Co. A new steel plant is to be built, including acid and basic open-hearth furnaces, and a new rolling mill plant will also be erected. This company has a capital of $3,000,000, and it will make a specialty of railway track appliances, including tie-plates, spikes, track bolts, splice bars and the Churchill rail-joint. Pres., H. T. Wallace; Secy., W. H. Wallace; Supt., E. H. Martin.

THE NATIONAL WATER-TUBE BOILER CO., New Brunswick, N. J., was recently reorganized, and is reported very busy with orders. The company began business 52 years ago as the National Iron Works, but has for many years operated under its present name, and manufactured the "National" water-tube boiler. The officers are: Pres., Hugh McKeag; Vice-Pres., P. G. Polhemus; Treas., Philip Weigel, Jr.; Secy. and Mgr., C. A. Schenck. Mr. Schenck has been identified with the company for eleven years.

THE LAKE ERIE ENGINEERING WORKS, Buffalo, N. Y., has been allowed a premium of $16,795 in addition to the contract price of $83,875 for the new 30,000,000-gallon pump it recently installed at the 14th St. pumping station, Chicago. The contract provided for a pump which should lift 135,000,000 lbs. of water one foot for each 1,000 lbs. of steam, and that the company should receive $1,000 extra for each additional 1,000,000 lbs. of water it should lift. The test recently made showed the pump's capacity to be 17,952,000 ft.-lbs. in excess of the requirements, as shown by the report published in our columns.

THE BUFFALO FORGE CO., Buffalo, N. Y., announces that it has been awarded the contract for the supply of four 50-HP. and two 75-HP., high speed, vertical center crank engines, which will run in oil, a direct-connected pressure blower and a 300-light generating set for the American Sugar Co.'s newly acquired plantation on the island of Molokai, one of the Hawaiian group. The plantation covers some 93,000 acres of land, said to be extremely fertile. It is reported that the American Sugar Co.'s expenditure will reach $1,700,000 before the plantation will be in full running shape, of which $400,000 will be spent for machinery. The Buffalo Forge Co. reports also the contract for heating and ventilation of the Deutsche Niles Works, Berlin. The apparatus for the machine shop consists of two full housing duplex fans, each standing 180 ft. tall. With these fans will be used 23,000 ft. of Buffalo fan system heating surface. The foundry heating and ventilating outfit consists of two full housing fans, each standing 140 ft. tall. With these fans are used 10,000 ft. of heater. The company will furnish also a complete equipment of machinery for its forge shop.

THE BULLOCK ELECTRIC MFG. CO., Cincinnati, reports the following important sales made during July: Union Depot, Dayton, Ohio, 2 50-K-W. engine type generators; Fuller Construction Co., New York, 4 50-K-W. engine type gentrators; Wilson Aluminum Co., Holcomb Rock, Va., 1 60-K-W. belted generator; Warren K. Blodgett, Boston, 1 150-K-W. belted generator; American Type Foundry Co., Cincinnati, 25 slow-speed motors for direct connection to type machine; D. E. Whiton Machine Co., New London, Conn., 1 30-K-W. belted generator; U. S. Government, San Francisco, 1 30-K-W. engine type generator; Pullman Palace Car Co., St. Louis, 1 12½-K-W. belted generator and 1 25-K-W. engine type generator; "Daily Mail," London, England, 2 50-HP. printing press equipments; Aldrich Mining Co., Brilliant, Ala., 1 30-K-W. belted generator; Missouri Lead & Zinc Co., Joplin, Mo., 1 20-HP. motor; Boston News Bureau, Boston, Mass., 1 9-HP. belted motor, 900 r. p. m.; Hanover Mfg. Co., Bethlehem, Pa., 1 10-HP. belted motor; Southern Electric Co., St. Louis, 1 12½-K-W. belted generator; Vulcan Metal Refinery Co., Sewaren, N. J., 1 17½-K-W. belted generator.

Mail Delivery Notice.

Special efforts are made to deliver our paper to its readers each week at the earliest possible moment. All papers for Boston, Philadelphia and Washington are usually in the New York post-office by midnight Wednesday evening; all Brooklyn and New York city papers by 3 o'clock—in ample time for the first delivery Thursday morning. The entire edition, including foreign copies, is in the mail soon after 6 o'clock Thursday morning. If your paper is not received promptly we advise that you make a complaint to your local post-office officials.

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